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SYNOPSIS
PLANTARUM SUCCULENTARUM,

CUM
DESCRIPTIONIBUS,
SYNONYMIS, LOCIS;
OBSERVATIONIBUS ANGLICANIS,
CULTURAQUE.

AUTORE
A. H. HAWORTH, F.L.S. &c.

LONDINI:
TYPIS RICHARDI TAYLOR ET SOCIJ,
SHOE-LANE.

M.DCCCXII.

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P R E F A C E.

THE following concise Catalogue is offered as a more complete enumeration of Succulent Plants, as far as cultivated in the neighbourhood of London, than has hitherto been given to the Public.

The plants themselves are nearly all alive in my own collection, at this present time. Those which I have never seen in a living state, are marked †;—and such as are presumed not to have been first *specifically* named by other authors, thus *. Many are rejected which have been given as *Succulent*, in other lists of *Succulent Plants*,—as the Orders SAXIFRAGÆ, and COM-MELINÆ; the genus *Veltheimia*, &c. And even *Yucca* (notwithstanding its resemblance to the succulent genus *Agave* has thus far secured it a place) is considered objectionable; and perhaps prevents us from consistently refusing *Dracæna Draco*, and the order BROMELIÆ.

For the sake as well of keeping genera as entire as may be, and of avoiding the difficulty of discriminating between species which are succulent, and others which are very slightly so, in

the difficult tribes of *Piperes* and *Euphorbiæ*; the whole of both will be enumerated. The remaining Succulents (not yet in the gardens) would have been added from authors; but from a fear of extending this little work too far;—the trouble would have been small, as they have been long studied by me. They are at present in considerable confusion, even in authors of the first repute; and some of them are described more than once, in the same work. In England, the botanists of late years have paid no attention to them.

With respect to culture, Succulent Plants prefer a sandy unmanured soil, and comparatively small pots. The coarse red sand of gravel-pits, (the freer from loam the better,) they are extremely partial to, (disliking not its lesser stones) mixed with about an equal quantity, or even less, of common earth for the more succulent species; and with proportionably more earth for those which are less so.

They must be watered very sparingly, and not often in winter, but in the dry weather of summer require water plentifully, and almost daily, if shrubby; and of course less when more succulent—the Cacti and *Euphorbiæ* the least of

PREFACE.

all; and very rarely even in summer over their heads—in winter, all the more succulent kinds in their pans only.

Those marked F. should be placed in garden-frames facing the south, from about Michaelmas to Lady-day, defended from frosts and rains; but in all fair, and not frosty weather, should be exposed entirely to the air.

The G. H. kinds may be housed and unhoused at the same time—admitting air freely when Fahrenheit's thermometer is above 40, but not at all when under 35, or foggy. At 32 or 33 in the open air, delay not the least to light the fires,—but make no more than are necessary to expel frost; for fire at best is insalubrious to plants.

Those marked S. are best in the Dry-stove or on the shelves of a Bark-stove all the year, with plenty of air in summer at the temperature of about 70, and a little occasionally even in winter when the sun shines warm, and the thermometer is not lower than 60. If the heat of the house descends to temperate, the plants will not suffer, and it is not necessary to urge it higher than 60 by fire, except perhaps at the eve of an

intense frost. When the external air declines to 50, it is time to light the fires.

As to shifting these plants, the larger ones require it not oftener than once in two or three years; but once or twice annually clear away the upper surface of their pots, and replenish it with fresh compost. The lesser plants must be moved about the end of August, or as often as their lesser fibres form dense mats at the bottoms and sides of their pots, paring off with a good knife the matted part, without breaking their balls of earth. They may be replanted either in the same, or larger pots, as discretion dictates; but never cut away any fleshy roots, though matted, but give them more pot room. After shifting, water the new earth with a rose-pan to settle it.

All the G. H. and F. species in summer should be placed on a south sheltered border, and in winter give the more delicate ones situations as near the glass as possible. Keep the whole from slugs and worms.

The Abbreviations and Classes are the same as in *Hortus Kewensis*, and similar works: but the genera and distribution of their species often new.

LITTLE CHELSEA,

Nov. 1811.

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Classis I.

MONANDRIA

MONOGYNIA.

SALICORNIA. (Salt Wort.) *Gen. pl.* 14.

Calyx ventricosus, integer. *Pet.* 0. *Sem.* 1.

S. (Arabian) foliis alternis vaginantibus obtusis *arabica*.
dehiscentibus. *Persoon syn.* 5. 7. 1.

HABITAT in Arabia.

S. h.

FLORET

CULT. 1758.

S. (Shrubby) geniculis teretibus integris, inter-*frutico-*
nodiis æqualibus, spicis subsessilibus cylin-*sa*.
draceis obtusis. *Sm. fl. br.* 3. 2. 2.

HABITAT Angliæ maritimis.

F. h.

FLORET Aug. Sept.

S. (Rooting) caule lignoso, basi procumbente *radicans*.
radicante, articulis compressis emarginatis; 3.
interstitiis fere cylindricis; spicis oblongis;
stylis profundè divisis; staminibus duobus.
Eng. bot. 1691.

HABITAT Angliæ maritimis.

F. 4.

FLORET Aug. Sept.

S. (Herbaceous) geniculis compressis emar-*herbacea*.
ginatis, internodiis obconicis, spicis pedun- 4.
culatis apicem versus attenuatis. *Sm. fl.*
br. 2. 1.—*Eng. bot.*

HABITAT Angliæ maritimis.

F. 0.

FLORET Aug. Sept.

- annua.* S. (Annual) ramosior procumbens, foliis brevibus purpurascens. *Dillen. in Raii syn.* 137.

HABITAT Angliæ maritimis.
FLORET Aug. Sept.

F. ☉.

Classis II.

DIANDRIA

MONOGYNIA.

GRATIOLA. *Gen. pl.* 37.

Cor. irregularis resupinata. *Stam.* 2 sterilia.
Caps. 2-locularis. *Cal.* 7-phyllus: 2 exterioribus patulis.

- Monnieria.* G. (Monnier's) foliis subrotundo-oblongis carnosius, caulibus reptantibus.—*Gratiola Monnieria.* Willd. *sp. pl.* 1. 102?—*Roxb. corom.* 2. 178.

1.

HABITAT in Indiis.
FLORET Aug. Sept.
INTROD. 1772.

S. ♀.

OBS. Contrary to the generality of succulent plants, this species requires a great deal of moisture, and will grow even in mud and water. It goes by the above name in Gardens at present, but a very different plant was so called at Kew a few years since.

TRIGYNIA.

PIPER. (Pepper.) *Gen. pl.* 59.

Cal. 0. *Cor.* 0. *Bacca* monosperma.

* *Foliis minus succulentis, petiolatis.*

P. (Blunt-leav'd) foliis peltatis orbiculato-cordatis peltatis obtusis repandis, spicis umbellatis. *Willd. tum.*
sp. pl. 1. p. 166.—*Saururus arborescens, foliis amplis rotundis et umbilicatis.* *Plum.*
americ. 56. t. 74.

HABITAT in Ind. Occ.

S. 4.

FLORET

INTROD. 1748.

P. (Umbell'd) foliis orbiculato-cordatis acuminatis venosis, spicis umbellatis, caule erecto umbellatis sulcato pubescente. *Willd. sp. pl.* 1. 167. 2.
 —*Piper latifolium.* *Jacq. hort. vindob. v.* 2. t. 216.

HABITAT in Ind. Occ.

S. 2.

FLORET Mai.—Jul.

INTROD. 1748.

P. (Broad-leav'd) foliis elliptico-ovatis acuminatis glabris basi inæqualibus venosis, petiolis appendiculatis, spicis axillaribus solitariis. *macrophyllum.* 3.
Willd. sp. pl. 1. 163.

HABITAT in Ind. Occ.

S. 2.

FLORET

INTROD. 1800.

P. (Hook'd) foliis oblongo-ovatis acuminatis basi inæqualibus venosis, spicis solitariis axillaribus uncinatis. *aduncum.* 4.
Willd. sp. pl. 1. 162.

HABITAT in Jamaica.

S. 2.

FLORET Mai.

CULT. 1748.

reticulatum. P. (Netted) foliis cordatis septemnerviis reticulatis. *Willd. sp. pl.* 1. 162.

5. HABITAT in Ind. Occ. S. 2.
FLORET Aug.
INTROD. 1748.

Amalago. P. (Rough-leav'd) foliis lanceolato-ovatis 5-nerviis rugosis. *Willden. sp. pl.* 1. 160.

6. HABITAT in Jamaica. S. 2.
FLORET
CULT. 1759.

nigrum. P. (Black) foliis ovatis subseptemnerviis glabris, petiolis simplicissimis. *Willd. sp. pl.* 1. 159.

7. HABITAT in Ind. Or. S. 2.
FLORET
INTROD. 1790.

Betle. P. (Betle) foliis ovatis oblongiusculis acuminate 7-nerviis, petiolis 2-dentatis. *Willd. sp. pl.* 1. 159.

8. HABITAT in Ind. Or. S. 2.
FLORET
INTROD. 1804.

longum. P. (Long) foliis cordatis petiolatis sessilibusque. *Pers. syn.* 31. 12.—*Rumph. amboyn.* 5. t. 116. f. 2.

9. HABITAT in India. S. 2.
FLORET
CULT. 1788.

**—*Foliis magis succulentis, petiolatis.*

maculosum. P. (Spot-stalk'd) foliis peltatis ovatis. *Linn. sp. pl.* 42. 15.—*Piper (variegatum)*, foliis cordato-ovatis peltatis, spicis geminatis. *Pers. syn.* 35. no. 104.—*Peperomia (variegata)*, foliis cordato-ovatis peltatis, spicis geminatis.

Fl. peruv. t. 52. f. a.—Plum. americ. 60. t. 66.

HABITAT in montibus Pillao. S. 4.

FLORET Sept.

INTROD. 1790.

Folia subtus albida, Petioli maculis purpureis variegati. Pers. syn. 35. 104.

OB3. *Folia subtus, caules maculati, petiolique dense pubescentia.*

P. (*Clusia*-leav'd) foliis obovatis obtusis veno- *Clusiæ-*
sis, spica solitaria terminali. *Willd. sp. pl. 1. folium.*
159. 11.

HABITAT in Ind. Occ. S. 2.

FLORET Mai.

INTROD. 1793.

P. (*Shining*-leav'd) foliis lanceolato-ovatis basi *nitidum.*
obliquis glabris nitidis. *Willd. sp. pl. 1. 12.*
163.

HABITAT in Jamaica. S. 2.

FLORET Mai. Jun.

INTROD. 1793.

P. (*Two-row*'d) foliis ovatis acuminatis, spicis *dist-*
conjugatis, caule radicante. *Pers. syn. 34. chyon.*
71.—*Plum. amer. 51. t. 67.* 13.

HABITAT in Americæ calidioris montibus. S. 4.

FLORET Jun. Jul.

INTROD. 1793.

P. (*Hairy*-leav'd) foliis ovatis acuminatis obli- *hispi-*
quis hirsutis rugosis : nervis alternis venosis, *dum.*
spicis erectis.—*Willd. sp. pl. 1. 163.* 14.

HABITAT in Jamaica. S. 2.

FLORET Jul.

INTROD. 1793.

- pellucidum*. P. (Pellucid) foliis parvulis cordatis cauleque erecto annuo subpellucidis.—*Piper foliis cordatis petiolatis, caule herbaceo*. Willd. *sp. pl.* 1. 163.—*Plum. americ.* 54. t. 72.
15.
HABITAT in America calidiore. S. ☉.
FLORET Apr.—Nov.
INTROD. 1748.

*** *Foliis magis succulentis, absque petiolo.*

- cuneifolium*. P. (Laurel-leav'd) subherbaceum, foliis cuneato lanceolatis amplexicaulibus coriaceo-carnosis nervosis, lateribus inclinatis, caule suberecto ramoso subnodoso.—*Piper cuneifolium*. Jacq. *hort. vind. v. 2. t. 214*.
16.
HABITAT in India? S. ♀.
FLORET
INTROD. circa 1809.
OBS. Sequenti forte nimis affinis.
- amplexicaule*. P. (Stem-clasping) subherbaceum, foliis lanceolato-ovatis amplexicaulibus nervosis carnosiss, caule erecto simplici. Willd. *sp. pl.* 1. 165.
17.
HABITAT in Ind. Occ. S. ♀.
FLORET Jun.—Sept.
INTROD. 1793.
- Magnoliæfolium*. P. (Magnolia-leav'd) foliis obovatis obtusissimis, pedunculis terminalibus ramosis, caule ramisque radicanibus. Ait. *hort. kew. ed. 2.* 71.
18.
HABITAT in Ind. Occ. S. ♀.
FLORET Jan.—Mar.
INTROD. 1793.
OBS. Folia rubro marginata, crassa.

P. (Blunt-leav'd) foliis obovatis carnosis lævi- obtusifo-
bus enerviis.—*Piper obtusifolium*. Willd. sp. lium.
pl. 1. 165. 19.

HABITAT in India Occ.

S. 4.

FLORET Ap.—Sept.

CULT. 1739.

**** Foliis magis succulentis, sæpius 3—6-nis,
at indies oppositis in eodem radice, vel
caule: caulibus plus minus rubris, et fere
geniculatis.

P. (Villous) foliis ternis oppositisque rhom- blandum.
beo-lanceolatis trinerviis ciliatis villosis, sub- 20.
tus punctatis.—*Piper (blandum)*, foliis ternis
lanceolatis acuminatis trinerviis ciliatis sub-
tus punctatis. Willd. sp. pl. 1. 164.

HABITAT in Carraccis.

S. 4.

FLORET Mai.—Nov.

INTROD. 1802.

P. (Pubescent) foliis oppositis, (rarissime ter- pubes-
nis) rhombeis coriaceo-carnosis, trinerviis, cens.
(nervo principe ramoso) minutissime pubes- 21.
centibus ciliatisque; caulibus erectis. *

HABITAT in India?

S. 4.

FLORET Sept. Oct.

INTROD. circa 1809.

OBS. Sequenti forte nimis affinis.

P. (Many-spik'd) foliis verticillatis rhombeo- polysta-
ovatis integerrimis petiolatis trinerviis pubes- chion.
centibus. Willd. sp. pl. 1. 167.—*Piper ob-* 22.
tusifolium. Jacq. ic. v. 1. t. 9.

HABITAT in Jamaica.

S. 4.

FLORET Jun. Jul.

INTROD. 1775.

- trifolium*. P. (Three-leav'd) foliis ternis subrotundis.
Pers. syn. 34. 73.
23. HABITAT in America calidiorē. S. 4.
 FLORET Jun. Jul.
 INTROD. 1802.
- pulchellum*. P. (Small-leav'd) foliis quaternis subsessilibus
 oblongis enerviis integerrimis, spicis terminalibus. *Willd. sp. pl.* 1. 169.
24. HABITAT in Jamaica. S. 4.
 FLORET Jul.—Sept.
 INTROD. 1778.
- stellatum*. P. (Starry) herbaceum, foliis verticillatis oblongis acuminatis trinerviis glabris, caule erecto. *Pers. syn.* 34. 78.—*Jacq. hort. vind.* v. 2. t. 217.
25. HABITAT in Jamaica. S. 4.
 FLORET Mai.—Jul.
 INTROD. 1802. (Hort. Cantab. ed. 6.)
- inæqualifolium*. P. (Unequal-leav'd) foliis verticillatis obovatis: floralibus majoribus, spicis terminalibus inæqualibus subquaternis.—*Peperomia inæqualifolia*. *Fl. peruv.* 1. p. 30. t. 36. a.
26. HABITAT in Peruviae locis saxosis et supra arbores, frequens. l. c.
 FLORET Jul. Aug. S. 4.
 CULT. in Hort. nost. circa 1800.
- OBS. The genus *Peperomia* is not at present here adopted, on account of my not exactly knowing how many species to refer to it, for want of opportunities to examine their fructifications: but it will probably embrace all the more herbaceous and succulent species.

Classis IV.

TETRANDRIA

MONOGYNIA.

PLANTAGO. (Plantain.) *Gen. pl.* 186.

Cal. 4-fidus. *Cor.* 4-fida, limbo reflexo. *Stamina* longissima. *Caps.* 2-locularis, circumscissa.

P. (Cape) foliis lanceolatis carnosis ciliatis, rarius inferne villosis.—*Plantago* (*capensis*), 1.
foliis ellipticis, spicæ floribus distinctis.
Willd. sp. pl. 1. 644.

HABITAT C. B. S.

G. H. ♀.

FLORET Aug.—Nov.

INTROD. 1788.

P. (Hairy) foliis linearibus carnosis, scapoque hirsuta. hirtis; radice bienni.—*Plantago* (*hirsuta*), 2.
foliis linearibus ciliatis, spica cylindrica, scapo hirsuto. Willd. sp. pl. 1. 645.

HABITAT C. B. S.

G. H. ♂.

FLORET Jun. Jul.

INTROD. 1801.

CISSUS. *Gen. pl.* 192.

Bacca 1 sperma, cincta calyce *Corolla*que 4-partita.

C. (Square-stalk'd) foliis dentatis carnosis ser-rato-dentatis, caule 4-gono tumidiusculo. *quadran-gularis.*
Willd. sp. pl. 1. 657. 1.

HABITAT in Arabia, atque Ind. Or.

S. ♀.

FLORET

INTROD. 1790.

acida. C. (Acid) foliis ternatis obovatis glabris car-
 2. nosis incis. *Willd. sp. pl.* 1. 657.

HABITAT in Jamaica.

S. h.

FLORET

INTROD. 1692.

TILLÆA. *Gen. pl.* 237.

Cal. 3—4-partitus. *Petala* 3—4, æqualia. *Caps.*
 3—4 polyspermæ.

muscosa. T. (Mossy) procumbens, floribus trifidis.—
 1. *Willd. sp. pl.* 1. 721.—*Eng. bot.* 116.

HABITAT in Angliæ ericetis.

H. ☉.

FLORET Mai. Jun.

Classis V.

PENTANDRIA

MONOGYNIA.

NOLANA. *Gen. pl.* 254.

Cor. campanulata. *Stylus* inter germina. *Nu-*
ces 5, 2—4-loculares.

prostra- N. (Trailing) caulibus prostratis, foliis ovatis
ta. carnos. — *Nolana prostrata.* *Willd. sp. pl.* 1.
 1. 794 — *Bot. mag.* 731.

HABITAT in Peru.

G. H. h. vel H. ☉.

FLORET Jul.—Sept.

INTROD. 1761.

CLAYTONIA. Gen. pl. 402.

- C. (Virginian) foliis linearibus, petalis integris. *virginica*.
Willd. sp. pl. 1. 1185.—*Bot. mag.* 941.
 HABITAT in Virginia. F. 4. 1.
 FLORET Mar.—Mai.
 INTROD. 1748.

- C. (Carolina) foliis spatulatis, petalis integris. *carolinica*.
Michaux amer. 1. 160.—*Claytonia spatulæ-ana*.
folia. Salisb. par. lond. 71. 2.

Obs. This and the following are distinct genera, as well in *habit* as in *characters*. But I postpone giving their distinctions till I have again examined their living flowers. An eminent Botanist has said that in constructing genera, *we should have an eye to, and as it were privately consult their natural habits; as a secondary help*. In this however he was mistaken; for long experience proclaims, that *steps directly the reverse* conduct us nearer to the *truth*. The natural habits lead to every thing.—Nov. 1811.

LIMNIA.

Linn. in act. stockh. 1746. p. 130. t. 5. (*momento Hort. k. ed. 2. v. 2. 53.*)

- L. (Siberian) foliis nervosis: radicalibus caulinisque ovatis, racemo secundo, petalis bifidis.—*Claytonia sibirica. Willd. sp. pl.* 1. 1186. *sibirica*. 1. †

HABITAT in Siberia. H. ☉.
 FLORET Aug.—Oct.
 CULT. 1768.

- L. (Chickweed-like) foliis radicalibus spatulato-ovatis, caulinis ovatis distinctis, racemis *Alsinoi-des*. 2.

subgeminatis, floribus secundis, bracteis ovatis linearibusque. *Bot. mag.* 1309.

HABITAT prope Nootka Sound. H. ☉.

FLORET Jun.—Oct.

INTROD. 1794.

perfoliata. L. (Perfoliate) foliis superioribus perfoliatis.—
3. *Claytonia, foliis enerviis: radicalibus rhombo-ovatis; caulinis subconnatis, floribus umbellato-verticillatis, petalis integris. Willd. sp. pl.* 1. 1186.

HABITAT in Americæ septentrionali-occident. maritimis. H. ☉.

FLORET Jul.—Sept.

INTROD. 1794.

POLYCARPEA.

Lam. in journ. d'hist. nat. 2. p. 3. t. 25.
(monente Pers. syn. 1. 262.) *Cal.* 5-phyllus.
Petala 5, emarginata. *Stylus* simplex. *Caps.*
3-gona, 1-locularis, 3-valvis, polysperma.
Pers. l. c. sub HAGEA.

Teneriffæ. P. (Teneriffæ) caule herbaceo prostrato, foliis
1. *spathulatis subacuminatis. Pers. l. c.* sub HAGEA.

HABITAT in monte famoso Teneriffæ. S. 4.

FLORET Jun.—Sept.

INTROD. circa 1807.

ECHITES.

Contorta. *Folliculi* 2, longi, recti. *Sem.* extremitate superiori comosa. *Cor.* hypocraterif. faux nuda. *Antheræ* medio cum stigmate cohærentes. *Hort. kew. ed.* 2. 68.

bispinosa. E. (Two-spin'd) aculeis binis extrafoliaceis,
1. foliis lanceolatis glabris, corollis hypocrateriformibus.

HABITAT C. B. S.

S. h.

FLORET Jul.—Nov.

INTROD. 1795. *Hort. kew. l. c.*

DIGYNIA.

SARCOSTEMMA.

Asclepiadea. *Massæ Pollinis* læves, 10, pendulæ. *Corona staminea* duplex: exterior cyathiformis vel annularis, crenata. *Cor.* rotata. *Hort. kew. ed. 2. v. 3. p. 76.*

S. (Twisting) H. Kew. l. c.—*Cynanchum viminale*, caule volubili perenni aphylo. *Pers.* 1. *syn.* 272.—*Euphorbia viminalis*. *Linn. sp.* † *pl.* 2. 649.—*Tithymalus* 9. *Mill. dic. ed. 1.*

HABITAT in Africæ maritimis et Indiæ nemorosis. Caulis nudus, crassitudine calami. *Pers. l. c.* S. h.

FLORET

CULT. 1731.

CEROPEGIA.

Contorta. *Folliculi* 2, erecti. *Sem.* plumosa. *Cor.* urceolatae limbus connivens. *Pers. syn.* 277.

C. (Forked) tota carnosa; caulibus strictis dichotomis articulatis teretibus, foliis linearibus acutis horizontalibus sesquiuncialibus; supra costa venisque simplicibus albis. *dichotoma.* 1. *

HABITAT

S. h.

FLORET Aug.

INTROD. ante 1806.

C. ? (Leafless) carnosa, ramis dichotomis multarticulatis debilibus teretibus; foliolis stipulæformibus adpressis, mox emarcidis. *aphylla.* 2. *

HABITAT C. B. S. ?

S. h.

FLORET

CULT. circa 1808.

OBS. *Foliola* circa lineam longa, et demum fere deltoidea, et nisi lente fere inconspicua. —Parum lactescit, habitu omnino *Tithymali* denudati, vel potius *Cacti penduli*. *Linn.*

HOYA.

Asclepiadea. *Massæ Pollinis* læves, 10, erecto-conniventes. *Antheræ* membrana terminatæ. *Corona staminea* 5-phylla: foliolis depressis, angulo interiore producto in dentem *antheræ* incumbentem. *Cor.* rotata. *Hort. kew. ed.* 2. 84.

carnosa. 1. H. (Fleshy) foliis ovali-oblongis carnosis, corollis barbatis, coronæ foliolis subtus sulcatis. *Hort. kew. l. c.*—*Asclepias carnosa*. *Bot. mag.* 788.—*Smith's exot. bot. t.* 70.

HABITAT in Asia.

S. h.

FLORET Jul. Aug.

INTROD. 1802.

OBS. It will survive, but not flower in the Greenhouse: and in a strong heat, and poor dry soil flowers best.

STAPELIA. *Gen. pl.* 432.

Ligulæ (s. *Nectarii stella exterior*) 5, basi connatæ, imo corollæ insertæ, genitalia ambientes. *Stamina* 5, corniculiformia sæpissime bipartita (exteriore ramo incurvo-cultriforme, interiore recurvo-calcariforme) intra *ligulas*, et eas basi connata, interne ipsa cava basi, *antheras* duas distinctas sessiles cerinas (recon-

ditas carneo albo processu) gerentia; inde genus pentandrum, nec gynandrum!

Obs. 1. Post fœcundationem (vel potius in ipso coitu) antheræ cum stigmatibus cohærent! atque confluent!

Obs. 2. Herbæ perennes præsucculentæ (si vulneratæ) copiose aqueo-lactescentes, radicibus, fibris simplicibus longis crassis. *Rami* crassi tetraquetri erecti s. adscendentes, cereiformes, inferne parum ramosi, pube brevissimo tecti, angulis crebre dentati, dentibus tumidulis foliolo erecto lineari carnoso vix conspicuo mox marcescenti finientibus. *Pedunculi* inæquales subflexi teretes villosuli, prope dentes inferiores erumpentes in fasciculo. *Calyx* 5-phyllus stellaris, foliolis linearis-attenuatis loreo-carnosis, uti tota inflorescentia. *Corolla* 5-partita stellaris lævis nitens, basi turgida, plus minus hirta præcipue basin versus, et præciliata; fere semper absque maculis, at notata striolis transversis interruptis concentricis; semper fœtida. *Stylus* (Nectarii centrum) tabulæformis! 5-angularis, supra planus niveus, lateribus sæpe 5-angularitè declivis, angulis ipsis stigmatiferis, ad ambo germina recondita, communis, et lævissimè unitus per filum sessilem, (duplicem?) mox deciduus. *Stigmata* sessilia granuliformia corneo-glandulosa nitida, tria in triangulo, ad singulum angulum styli, horum duo interna brunnea, tertium extimùm, atrum, cæteris longissimè minus, (abortivum?) nudis oculis vix conspicuum. *Germina* duo styliformia conniventia exigua, parum subulata obtusa, subtus stylum tabulæformem omnino recondita, sed demum progredientia in folliculos

duos univalves uniloculares corniculiformes rectos subulatos 1-6-unciales, internè longitudinaliter denique dehiscentes. *Semina* majuscula subovata depressa marginata plumosa rufa, lanâ copiosissimâ tenuissimâ prælongâ sericeâ niveâ.

OBS. I greatly regret that the following account of this genus, and of the genera taken from it, should be so incomplete; owing to my not having studied these plants till recently; nor dissected a single flower of the order *Apocynæ* till about Michaelmas last, nor before that time cultivated above fifteen or twenty *Stapelie*. They are difficult plants to grow, and, from Michaelmas to Lady-day, dislike the knife so much, that the cutting of single specimens from the larger kinds at that season will often cause them to bleed to death, unless they are taken up and dried: but the cuttings survive.

* **ALATÆ.** *Caulibus alatum tetragonis, pubescentibus.*

*grandi-
flora.*

1.

S. (Great-flower'd) ramis quadrangularibus clavatis, angulis dentatis; dentibus remotis incurvatis. Corolla magna, plana, villosa, quinquefida: laciniis lanceolatis, margine ciliatis. *Masson. stap. 13. t. 11.—Hort. kew. ed. 2. v. 2. p. 85.*

HABITAT C. B. S.

S. h.

FLORET Oct.—Dec.

INTROD. 1795.

*spectabi-
lis.*

2.

S. (Showy) corollæ laciniis nigris albo ciliatis, ovato-lanceolatis, a basi post medium villis longis densissimis rubris; supernè obsolete pallido striatis; apicibus nigris.

Stapelia grandiflora. Bot. magaz. 585. exclusis synonymis.

HABITAT C. B. S.

S. h.

FLORET Dec.

INTROD. ante 1802.

OBS. Flores maximos septemunciales (nisi siccatos) non possideo.

S. (Ambiguous) corollæ laciniis maximis oblongo-lanceolatis hispidis; ligulis semuncialibus; exteriore ramo staminum cultriformi serrato, interiore formâ pedis.—*Stapelia ambigua.* Masson's stap. 13. t. 12.—Hort. kew. ed. 2. v. 2. p. 86. ambigua.
3.

HABITAT C. B. S.

St. h.

FLORET Oct.

INTROD. 1795.

OBS. *Calycis* foliola subulata canaliculata pubescentia. *Corolla* altè 5-fida rufo-vinacea, rugis transversis saturatioribus, rarius flavo interruptis, ultra medium rufo-hirta, pilis basi glandulosis; tunc nuda; marginibus laciniarum ciliis distichis complanatis semuncialibus crebris roseis. *Ligulæ* rufæ obtusæ parum recurvæ canaliculatim concavæ, apice pallidiores. *Stamina* inæqualiter bifida rufa, exteriore ramo cultriformi præcompresso patulo obtuso internè dentatum erosulo, acie stylum spectans: interiore ramo erectiore at patulo, altiore triplo angustiore subulato, dorso plano apice recurvo. *Styli* tabula magna alba 5-angularis subrepanda. *Antheræ* cerinæ obtusæ magnæ.

S. (Sister) ramis divaricatis 4-angularibus: angulis dentatis, dentibus remotis acutis, incurvatis. *Corolla* unicolori 5-fida: laciniis la- sororia.
4.

ceolatis planis, centro villosis, margine ciliatis. *Masson's stap.* 23. t. 39.

HABITAT C. B. S. St. h.

FLORET Jun.

INTROD. circa 1797.

reflexa S. (Reflex-flower'd) staminibus subdeltoideis
5. processu interiore recurvatis unguiculiforme :
* styli tabulâ cruce impressâ.—*Stapelia deflexa*,
Hortorum.

HABITAT C. B. S.

St. h.

FLORET Oct. Nov.

INTROD. circa 1805.

OBS. Præcedentibus omni parte plus duplo minor, ramis decumbenti-erectis. *Corolla* viridi-vinacea, laciniis elliptico-lanceolatis revolutis reflexis, medio striis transversis undatis contiguis albidis; intus basin versus pilis erectis crebris longis purpureis; margine omnibus ciliis numerosis conspicuis roseis. *Ligulæ* sordide rufæ recurvæ inflexo-concavæ, apice cuneatæ, basi pallidiores. *Stamina* concoloria cum ligulis, processu interiori unguiculum aviculi simulante.

** *ÆQUILATERALES*, *Caulibus angulis 4, planis æqualibus pubescentibus*.

Massoni. S. (Masson's) ramis 4-quetris magnis.—*Stapelia Massoni*, *Hortorum*.—Nunquam rite examinavi.

6.

*

HABITAT C. B. S.

St. h.

FLORET

INTROD. ante 1808.

OBS. Sequenti similis, at major. Flores non vidi.

Asterias. S. (Star-fish) corollæ laciniis ovatis longe acuminatis, staminibus inæqualiter bifidis trun-

7.

catulis.—*Stapelia Asterias. Masson's stap.*

14. t. 14.

HABITAT C. B. S.

St. h.

FLORET Aug.—Oct.

INTROD. 1795.

OBS. *Corolla* duplo major quam in *S. reflexa*, magisque carnosâ atro-purpurea, fere ad medium lævis turgida, laciniis medio striis transversis irregularibus fractis punctisque subanastomosantibus flavescentibus: basis hirta, marginibus laciniarum altè crebrèque ciliatis, ciliis purpureis. *Ligulæ* nigræ inflexo-concavæ expansæ apice erosulæ. *Stamina* ligulis longiora, suberecta ramo extimo subdolabri-formi præcompresso nigricante; ramo intimo lorato flavicante altiore triplo angustiore.

S. (Starry) *Stapelia stellaris, Hortorum.*

stellaris.

HABITAT C. B. S.

St. h.

8.

FLORET Aug.

*

INTROD. 1804.

OBS. Vivam possideo, absque flore. *Rami* et ramuli fere ut in præcedente, valde pubescentes.

S. (Hairy) corollis quinquefidis laciniis ovatis *hirsuta.*

acutiusculis margine villosis; fundo villosis, 9.

pedunculis teretibus longitudine corollæ, ramis adscendentibus tetragonis basi floriferis.

Willd. sp. pl. 1. p. 1278.—Hort. kew. ed. 2.

v. 2. p. 85.

HABITAT C. B. S.

S. h.

FLORET Jun. Jul.

CULT. 1710.

S. (Hook'd) *Stapelia hamata, Hortorum.*

hamata.

HABITAT C. B. S.

S. h.

10.

FLORET....

*

INTROD. 1805.

OBS. Vivam possideo, absque flore. *Rami et ramuli minores, minusque pubescentes quam in S. stellari. Flores non vidi.*

rufa.

11.

S. (Red-Black) corollæ laciniis lanceolato-acuminatis; ligulis lineari-lanceolatis undatis; staminibus dilatatis inæqualiter emarginato-bifidis — *Stapelia rufa. Masson's stup. 16. t. 20. — Hort. kew. ed. 2. v. 2. p. 87.*

HABITAT C. B. S.

S. h.

FLORET NOV.

INTROD. 1795.

OBS. *Pedunculi* conspicui, teretes villosuli coracis calami crassitie. *Calyx* 5-phyllus, foliolis basi fere unitis vel potius apice pedunculi insertis, semuncialibus, lineari-subulatis intus inflexo-canaliculatis villosulis. *Corolla* 5-fida fere ad basin, extus pubescens, intus atra subnitens; fundo hirsutissimo pilis longis rubro-vinaceis; laciniis reticulatim rugosis usque ad medium striis concentricis transversis undatis interruptis albo-roseis, marginibus pulcherrimè ciliatis pilis semuncialibus copiosis amœnissimè rubro-vinaceis, basi ciliarum confluyente in processu tenuissimo subcartilagineo. *Ligulæ* rufo-atræ integræ undato-recurvæ inflexo-canaliculatæ. *Stamina* magna atra, apice atro-rufa, exteriore ramo brevi subdeltoideo 2-3-crenato, interiore pyramidali (plano) extus unicrenato. *Tabula styli* 5-gona concava, cruce punctisque duobus centralibus inpressis. Descriptio e senecto flore.

pulvinata.

12.

S. (Cushion) ramis ramulisque tetragonis, reclinatis dentatis; corolla quinquefida, plana, medio villosa: laciniis patentissimis rugosis,

acuminatis, margine ciliatis. *Masson's stap.*

13. t. 13.—*Hort. kew. ed. 2. v. 2. p. 88.*

HABITAT C. B. S.

S. h.

FLORET Sept. Oct.

INTROD. 1795.

*** *Ligulis rhombico-oblongis cuneatisve: staminibus simplicibus subulatis, undulatis.*

OBS. 1. *Cætera ut in ultimâ sectione, at ramis duplo gracilioribus.*

OBS. 2. This section is almost a distinct genus; but as all its species agree with *Stapelia* in habit, and pubescence, and even in the dentition of their branches, it is best given as above.

S. (Neat) corolla prævillosa, villis simplicibus *concinna* albis, ligulis cuneatis, integerrimis.—*Stapelia* 13. *concinna. Masson's stap. 15. t. 18?*

HABITAT C. B. S.

St. h.

FLORET Sept. Oct.

INTROD. 1795.

OBS. 1. *Rami 4-quetri nitidi, lente subpubescentes. Pedunculi 1—2. Corolla quinquefida ad medium rufescens, laciniis ovato-acuminatis, supernè striolis obsoletis transversis irregularibus pallidis. Ligulæ loratæ apice obtuso-cuneatæ, piceæ, basi spadiceæ. Stamina integra subulata, at plana, badia, ligularum longitudine.*

OBS. 2. This is the *Stapelia concinna* of the Gardens; but *Masson's* figure of his *S. concinna* may be different, because he has depicted bifid, not entire stamina.

S. (Hairy-glanded) corolla prævillosa, villis *glandulifera* obspathulatis niveis; ligulis minutis rhombico-oblongis integerrimis.—*Stapelia glandulifera.* 14.

Donn. hort. cantab. ed. 5. p. 56.—*S. glanduliflora*, ed. 6. nec Massoni.

HABITAT C. B. S.

S. h.

FLORET Oct.

INTROD.

OBS. 1. Villi ~~ob~~spathulati numerosissimi atque longi. Rami manifestè pubescentes. Flores e medio ramorum supra calcaria crassa, 2-3-nati, *pedunculis* 2-3-uncialibus filiformibus debilibus hirtis. *Corolla* parvula 5-fida virescens, laciniis ovato-acuminatis, fundo, striolisque numerosis concentricis transversalibus interruptis rufis. *Ligulæ* patentès corneæ luteo-rufescentes obtusæ, suprà planæ longitudine lineæ. *Stamina* simplicia subulata badia trilinearìa, apicibus supra tabulam Styli conniventibus.

OBS. 2. This is the *Stapelia glandulifera* of the Gardens ; but it agrees not with Masson's *glandulifera*, neither in its pubescent and otherwise different branches, markings of the *Corolla*, or in its entire *Stamina* ; his having bifid ones.

glanduli S. (Gland-flower'd) ramis plurimis suberectis
flora. tetragonis, angulis dentatis ; dentibus erectis,
15. acutis. *Corolla* plana, glandulis setaceis clavatis tecta : laciniis ovato-lanceolatis acutis patentibus. *Masson's stap.* 16. no. 19. t. 19.—*Stapelia (glanduliflora) corollis quinquefidis pilis apice glanduliferis tectis : laciniis ovatis acutis, pedunculis corolla longioribus, ramis patulis tetragonis basi floriferis. Willd. sp. pl.* 1. p. 1284.—*Hort. kew. ed.* 2. v. 2. p. 89.

HABITAT C. B. S.

S. h.

FLORET Sept.—Nov.

INTROD. 1795.

S. (Pointed) ramis pluribus suberectis tetrago- acumi-
nis dentatis. Corolla 5-fida, plana, glabra, ta.
rugosa: laciniis caudatis, acuminatis, mar- 16.
gine ciliatis *Masson's stap.* 15. t. 17.

HABITAT C. B. S. St. h.

FLORET Aug. Sept.

INTROD. 1795.

OBS. Flores non vidi, at *Stamina* simplicia et
subulata sunt in *Massoni* figurâ supra citatâ:
inde hujus generis est.

**** ANOMALÆ, absque characteribus præce-
cedentiarum. Inter has nova genera pro-
culdubio latent, characteribus mihi ig-
notis.

† OBTUSE-DENTATÆ, ramorum obtusangulorum
dentibus fere omnino oblitteratis obtusissimis.

S. (Long-peduncled) ramis plurimis divaricatis peduncu-
tetragonis subdentatis: pedunculis longissi- lata.
mis. Corolla quinquefida: laciniis lanceolatis 17.
margine revolutis: angulis fimbriatis. *Mas-
son's stap.* 17. t. 21.

HABITAT C. B. S. S. 4.

FLORET Aug.

INTROD. circa 1790. An sui generis?

S. (Open) ramis plurimis divaricatis tetragonis aperta.
dentatis: dentibus obtusissimis; pedunculis 18.
longiusculis. Corolla quinquefida plana: la-
ciniis ovatis obtusis rugosis. *Masson's stap.*
23. t. 37.

HABITAT C. B. S. St. 4.

FLORET Jul. Aug.

INTROD. 1795.

S. (Branched) ramis plurimis erectis tetragonis ramosa.
dentatis, dentibus obtusissimis; floribus ag- 19.
gregatis subsessilibus: corollarum laciniis

lanceolatis acutis replicatis.—*Masson's stap.*
21. t. 32.

HABITAT C. B. S.

S. 4.

FLORET Jun.—Jul.

INTROD. 1795.

†† *MAGNIDENTATÆ.* *Huerniarum vel potius
Piaranthi habitu, at sæpius elatiores, den-
tibus ramorum magnis horizontalibus del-
toideis. An genus proprium? An Piaran-
thi species?*

arida. S. (Arid) ramis plurimis erectis tetragonis den-
20. tatis : dentibus patentibus acutis, floribus so-
litariis pedunculatis : corollarum laciniis pla-
nis setaceis.—*Masson's stap.* 21. t. 33.

HABITAT C. B. S.

S. 4.

FLORET Aug.

INTROD. 1795.

incarna- S. (Flesh-colour'd) ramis erectis tetragonis den-
ta. tatis : dentibus patentibus acutis. Floribus
21. subsessilibus : Corollarum laciniis lanceolatis
planis.—*Masson's stap.* 22. t. 34.

HABITAT ad Caput Bonæ Spei.

S. 4.

FLORET Ap. Mai.

INTROD. 1793.

parviflo- S. (Small-flower'd) ramis pluribus tetragonis
ra. dentatis recurvatis. Corolla parva : laciniis
22. angustatis planis patentibus, margine ciliatis.
—*Masson's stap.* 22. t. 35.

HABITAT C. B. S.

S. 4.

FLORET Jun. Jul.

INTROD. 1795.

††† *Ramorum teretum tuberculis unipiliferis vel
unispinuliferis.*

pilifera. S. (Hair-tubercled) ramis pluribus teretibus
23. sulcatis tuberculatis ; tuberculis piliferis ; flo-

ribus sessilibus solitariis.—*Masson's stap.* 17.
t. 23.

HABITAT C. B. S. S. 4.

FLORET Jun.—Aug.

INTROD. 1790.—Reintrod. 1805 : at nunc iterum perdit.

An Genus proprium?

S. (Gordon's) ramis ramulisque teretibus tuberculatis : tuberculis spinosis ; pedunculis solitariis. Corolla magna decemfida.—*Masson's stap.* 24. t. 40. *Gordoni.* 24.

HABITAT C. B. S. S. h.

FLORET

INTROD. ante 1796.

An Genus proprium? at Corolla 5- nec 10-fida.

OBS. I have a distant recollection (unless memory greatly deceives) of having seen this extraordinary plant at Kew : and Mr. William Anderson, of Kensington Gore, and Mr. John Howard, (who have both long studied *Stapelias*) also think they remember to have beheld it there.

†††† *Ramis teretiusculis, tuberculis magnis, mammillæformibus, medio folioliferis.*
Genus proprium?

S. (Mammillary) corollis quinquefidis glabris : *mammillaciniis lanceolatis, pedunculis corolla brevilaris.* 25.
tuberculatis : tuberculis spinosis.—*Willd. sp. pl.* 1. p. 1287.—*Stapelia aphyllas ad nodos mammillaris, flosculo rubello, siliquis pendulis.*
—*Burm. afr.* 27. t. 11.

HABITAT C. B. S. S. 4.

FLORET Jun. Jul.

INTROD. 1774.

articulata. S. (Jointed) articulis ramorum oblongis teretibus, reticulatim obsolete verrucosis : spinulis

26. minutis, floribus subsessilibus, Corollis supra papillois : laciniis triangularibus.—*Hort. kew. ed. 1. p. 310. ; ed. 2. v. 2. p. 90.—Masson's stap. 20. t. 30.*

HABITAT in Africæ Australis Roggeveldt. Articuli aceto conditi comeduntur a Novaccollis, et etiam crudi ab Hottentottis. *Masson. l. c.* S. 4.

FLORET Aug. Sept.

INTROD. 1774.

++++ OBS. *In addition to the above, there are, or were, the following species of Stapelia in the Gardens, imported, with many others, from Vienna, by T. Evans, Esq. with the following Jacquinian names.*

cordata. S. (Heart-shaped) *Stapelia cordata, Hortorum.*
27.

HABITAT C. B. S. S. 4.

FLORET

INTROD. 1805.

clavigera. S. (Clubbed) *Stapelia clavigera, Hortorum.*

HABITAT C. B. S. S. 4.

28. FLORET

INTROD. 1795.

cunescens. S. (Hoary) *Stapelia canescens, Hortorum.*

HABITAT C. B. S. S. 4.

29. FLORET

INTROD. 1795.

hirtella. S. (Hairy) *Stapelia hirtella, Hortorum.*

30. HABITAT C. B. S. S. 4.

FLORET

INTROD. 1795.

S. (Serpent-like) *Stapelia ophiuncula*, Horto- ophiun-
rum. cula.

HABITAT C. B. S.

S. 4. 31.

FLORET

INTROD. 1805.

GONOSTEMON.

Ligulæ distinctæ, canaliculiformes. *Stamina*
rectangulatum incurva unciformia brevia.

Obs. Cætera ut in Stapeliis æquilateralibus, at
ramulis 3-plo gracilioribus subdivaricatis.

G. (Divaricated) corollâ reflexâ glabrâ nitidâ, *divarica-*
laciniis subrevolutis ciliatis—*Stapelia divari-* *ta.*
cata. Masson's stap. 17. t. 22.—Bot. mag. 1.
1007.

HABITAT C. B. S.

S. 5.

FLORET Aug.—Nov.

INTROD. 1795.

Obs. *Flores* fasciculati irregulariter progredien-
tes, pedunculis longitudine laciniarum. *Co-*
rolla 5 fida extus alba intus pallidè carnea,
carnosa, et carnem simulans, inodora, ciliata
fere ad apices acutos luteo virides laciniarum.
Ligulæ oblongæ rufæ, apice cuneatæ recur-
væ. *Stamina* fere pediformia rufa, ligularum
longitudine; inter, et ad eas adnata; basi an-
theris didymis magnis luteis. Inter stamina
ad ipsos angulos styli tabulæformis stigmata
3, fere sessilia; duo antheræformia, spadicea,
alterum nigrum nitidum fere inconspicuum
punctiforme. Ex hoc puncto deorsum (lente)
externè excurrit ligula oblonga minutissima bi-
fida supra unisulcata lutea.

HUERNIA. *Brown's asclep.* 11.

Corolla acutè 10-fida inferne campanulata, laciniis alternis longissimè diminutis denticuliformibus. *Ligulæ* horizontales fundo corollæ adnatæ usque ad medium, semiconnatæ, rhombæ emarginatæ. *Stamina* ut in *Stapelia* acuminata, &c., at magis undata.

Obs. 1. *Rami* subsimplices 4-5-quetri æquilaterales erecti crassi glauci nudi, (dentibus magnis horizontalibus deltoideis, basi contiguis) sæpius basi floriferi. *Calyx* 5-phyllus, foliolis setaceis carnosus.

Obs. 2. Since the above generic characters were written exactly as they now stand, and with the generic name *Decodontia*, from the ten dentiform divisions of the *Corolla*; Mr. Brown has lent me his paper on *Asclepiadææ*, wherein he has defined and named this Genus *Huernia*, which is here retained. The species Mr. Brown examined were *H. campanulata*; *venusta*, and *guttata*.

reticulata. H. (Netted) ramis pentagonis denticulatis dentibus patentibus. *Corolla* decemangulata: tubo intus barbato ampliato in orbiculum elevatum.—*Masson's stap.* 1. t. 2.

1.

HABITAT C. B. S.

S. h.

FLORET Jul. Aug.

INTROD. 1793.

Stapelia crassa. *Donn's hort. cantab. ed.* 6. p. 67.

campanulata. H. (Bell-flower'd) corollâ sub-campanulatâ, fundo pilis clavatis horizontalibus clauso, ligulis repandatim truncatis atris.—*Stapelia* *campanulata*.

2.

nulata. Masson's stap. 11. t. 16.—*Bot. mag.*
1293.—*Hort. kew. ed. 2. v. 2. p. 95.*

HABITAT C. B. S.

S. h.

FLORET Jul.—Oct.

INTROD. 1795.

OBS. *Corolla* basi valde carnosā, extus alba punctis maculisque numerosis roseis; intus etiam alba, maculis rotundis numerosis sæpe distinctis atris, punctulisque rufo-atris lente elevatis; basin versus atro-rufa, striolis obsoletis concentricis valde interruptis albis, pilisque horizontalibus distinctis claviformibus carnosis nigris numerosis fundum ipsum nitentem nigrum claudentibus. *Stamina* simplicia acutè subulata undatim-erecta atro-rufa, basi geniculata. *Tabula Styli* parva alba recondita.

H. (Showy) ramis tetragonis pentagonisque; *venusta*.
ramulis patentissimis divaricatis glabris, den- 3.
ticulis ramorum patentibus acutis. *Corolla* decemfida: tubo glabro ampliato in orbiculum elevatum.—*Masson's stap.* 10. t. 3.

HABITAT C. B. S.

S. h.

FLORET Jun. Jul.

INTROD. 1795.

H. (Freckled) corollis 10-dentatis, laciniis al- *lentigi-*
ternis obsoletis, fundo concavo orbiculo ele- *nosa*.
vato cincto; caulibus superne ramosis, ramis 4.
pentagonis patentibus tuberculosi; tuberculis uncinatis.—*Eot. mag.* 596.

HABITAT C. B. S.

S. h.

FLORET Jul.—Nov.

INTROD. 1799.

An idem cum sequente?

- guttata*. H. (Red-spotted) corollis fundo concavo, orbiculo elevato cincto, caulibus superne simplicibus glaucis, dentibus ramorum horizontalibus.—*Stapelia guttata*. Masson's stap. 11. t. 4.

HABITAT C. B. S.

S. h.

FLORET Aug.—Nov.

INTROD. 1795.

OBS. Flores conferti ad caulium basin, brevius pedunculati. Corolla lutea crebrè sanguineo punctata, laciniis extus costâ elevatâ. Orbis prægrandis, cum fundo infundibuliformi, os obbæ rusticè simulans, pustularis, sanguineo maculatus, intus spinulis pauculis horizontalibus glanduliformibus sparsis. Ligulæ horizontales semiconfluentes, fissæ usque ad confluentiam, nigro-purpureæ (margine ustulato) cingulo lato medio repando stellari niveo. Stamina subulato-setacea undatim tortuosa alba; purpureo maculata, basi toto purpurea.

- humilis*. H. (Humble) ramis pluribus 4—5-angulatis patentibus. Corolla orbiculata decemfida: laciniis quinque longioribus, quinque brevioribus patentibus: pedunculis solitariis.—*Masson's stap.* 3. t. 5.—*Hort. kew. ed.* 2. v. 2. p. 96.

HABITAT C. B. S.

S. h.

FLORET Oct.

INTROD. 1795.

- tubata*. H. (Tube-flower'd) ramis simplicibus crassissimis 4—5 gonis, dentibus maximis.—*Stapelia tubata Hortorum*.

HABITAT C. B. S.

S. h.

FLORET

INTROD. 1805.

Obs. Rami sæpe cristatim confluent. Flores non vidi. In hortis, nomine *S. crassi*, subinde occurrit. Sed non est *S. crassa*.—Donn. hort. cantab.

H. (Curled) ramis 4-5-gonis, simplicibus, *crispa*. sæpiusve confluentibus crispis, dentibus minoribus.—*Stapelia crispa Hortorum*. 8.

HABITAT C. B. S. S. 2.

FLORET....

INTROD. 1805.

Obs. Præcedenti valde distincta, at sequenti fortè monstrosa varietas; dentibus parvulis in hoc genere. Flores non vidi.

H. (Bearded) corollâ campanulatâ, fauce sub-*barbata*. clausâ setis clavatis rufis; ligulis oblongo-rhombicis retusis; staminibus subulatis undatim subuncatis.—*Stapelia barbata*. Masson's *stap.* 11. t. 7.—*Hort. kew. ed. 2. v. 2. p. 95*. 9.

HABITAT C. B. S. S. 4.

FLORET Aug.—Oct.

INTROD. 1795.

Obs. Dentes ramorum minores quam in *D. campanulata*. Flores in fasciculo e basi ramorum ut in omnibus (excepta *D. lentiginosa*). Corolla flavescens 10-fida, dentibus intermediis minutissimis; basi striis concentricis rufis, parum interruptis; laciniis majoribus triangulari-acuminatis patentibus, rufo crebrè punctatis. Ligulæ aterrimæ. Stamina atrofusa deorsum pallidiora. Stylus tabulæformis parvus obsolete 5-gonus niveus, (oculo armato) cruce impressâ.

PODANTHES.

Corolla 5-fida rugulosa fundo late campanulato, orbiculo tumido cincto. *Ligulæ* connatæ ad medium, canaliculiformes rhombeæ altè emarginatæ. *Stamina* simplicia brevissima alternantia cum ligulis formâ pedis reversi, ad stylum incurvatim arcuè adpressa.

OBS. Cætera ut in *Stapelia*: at ramis fere quadruplo gracilioribus effuso-decumbentibus debilibus demum basi radicantibus, obsolete 4-5-gonis, dentibus longè majoribus adscendentibus deltoideo-acuminatis crassis, at folio minus manifestè finientibus.

pulchra. P. (Beautiful Sulphur) præramosa debilis, floribus geminatis semi-5-fidis corrugatis, fundo minutè piloso.—*Stapelia verrucosa Hortorum, sed non Massoni*.

1.

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. ante 1800.

OBS. *Flores* longius pedunculati, ad basin ramorum superiorum. Pedunculi flexi. *Calyx* 5-phyllus, foliolis lanceolato-acuminatis, ut in affinis. *Corollæ* laciniis deltoideo-acuminatis, extus herbaceis lineis 5 parallelis elevatusculis saturatioribus, nec basin neque apicem attingentibus; intus sulphureis, crispò rugulosis, verrucis numerosissimis crebrè at regulariter sparsis atro-rufis, prope basin majoribus. *Orbis* parvulus rugosissimus verrucis atro-rufis crebrioribus confluentibus: Fundus etiam atro-rufus glandulosis pilis pauculis erectis præexiguis sparsis sulphureo tenuiter cinctus. *Ligulæ* atro-rufæ lucidæ, marginibus indies partim luteis. *Stamina*

medio rectangulatim incurva, acuminata formâ pedis, tabulæ styli arcuè adpressa et amplexentia atro-rufa, at supra tabulam flava. Tabula etiam atro-rufa, basi cingulo flavo.

- β. Ramis longè crassioribus.—*Stapelia verrucosa*. Bot. magaz. t. 786, sed non Massoni.—*Stapelia, pulchella Hortorum, sed non Massoni*.

- P. (Dewy) Corollis plus semi-5-fidis, rugosis irrorata. irroratis.—*Stapelia irrorata*. Masson's stapelia. 12. t. 9.—Hort. kew. ed. 2. v. 2. p. 94. 2.

HABITAT C. B. S.

S. h.

FLORET Jul. Aug.

INTROD. 1795.

Flores non vidi.

- P. (Warted) ramis pluribus suberectis; dentibus ramorum acutis decussatis. Corolla plana verrucosa, medio parum elevata in pentagonum, genitalia ambiens scabrum. Masson's stap. p. 11. no. 8. t. 8.—*Stapelia (verrucosa) corollis quinquefidis verrucosis: laciniis ovatis acutis; fundo pentagono scabro, pedunculis corolla longioribus, ramis adscendentibus, tetragonis basi floriferis*. Willd. sp. pl. 1. p. 1291.—Hort. kew. ed. 2. v. 2. p. 94. 3.
excluso synonymo Bot. magaz.

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. 1795.

- P. (Beautiful) ramis plurimis reclinatis dentatis; pulchellamentibus acutis; floribus fasciculatis; corolla 5-fida; laciniis 3-angularibus acutis, centro orbiculato. Masson's stap. 22. 36. 4.

HABITAT C. B. S.

St. h.

FLORET Jul. Aug.

INTROD. 1795.

*Flores non vidi.**lepida.* P. (Pretty)—*Stapelia lepida*, *Hortorum*.

5. HABITAT C. B. S.

S. h.

* FLORET

INTROD. 1805.

OBS. Vivam possideo ; antecedenti similem, at
flores non vidi.*ciliata.* P? (Fringed) corollis alte ciliatis.—*Stapelia ci-*
6. *liata*. *Masson's stap.* 9. 1.—*Hort. kew. ed. 2.*
v. 2. p. 85.

HABITAT C. B. S.

FLORET Oct.—Dec.

INTROD. 1795.

Flores non vidi.

TRIDENTEA.

Ligulæ tridentiformes. *Stamina* inæqualiter
bipartita.OBS. Habitus fere Podanthidis, sed rami nudi
erectiores, dentibus minoribus, at finientibus
foliolo viridi valdè manifesto.*gemmi-* T. (Gem flower'd) corolla crassissima corruga-
flora. ta atra, albo-ciliata.—*Stapelia gemmiflora.*
1. *Masson's stap.* 14. t. 15.—*Hort. kew. ed. 2.*
v. 2. p. 87.

HABITAT C. B. S.

S. h.

FLORET Oct.

INTROD. 1795.

OBS. Foliola certè longiora quam in ullis. *Calyx*
5-phyllus, foliolis lineari-lanceolatis concavis.
Corolla altè 5-fida expansa absque orbe, basi
striolis concentricis undatis flavicantibus ; la-
ciniis ovato-acuminatis. *Ligulæ* tridentem
simulantes, dentibus gracilibus subulatis 4-li-
nearibus erecto-patulis canaliculatis atro-pur-
pureis apicibus pallidis, dente medio cæteris

triplo latiore sesquolongiore, basi utrinque undatim quasi auriculato. *Stamina* bifida, exteriori ramulo breviori compresso fere triangulari acuto atro-rufo; interiore filiformi triplo longiore recurvo concolore apice albo. *Tabula Styli* recondita orbicularis parva, depressionibus 5 angulæformibus obliquis. Variat corolla toto atra.

Obs. The above description was made from a nearly decayed flower.

T. (Stygian) corollis rugosis atris, pilis rubicundis: ramis crassis brevibus, luteo-viridibus. *stygia.* 2.
*

HABITAT C. B. S.

S. h.

FLORET Aug.

INTROD. ante 1800.

Obs. *Rami* a præcedente valde diversi; breviores, crassiores, pallidiores.

T? (Musky) *Stapelia moschata*, Hortorum. *moscha-*

HABITAT C. B. S.

S. h. ta.

FLORET Sept. Oct.

3

INTROD. 1799. *Donn's hort. cant. ed. 6. p. 67. no. 31.*

Hanc speciem, vel forte varietatem, non examinavi.

T? Corollis 5-fidis glabris: laciniis ovatis acuminatis superne trinerviis, pedunculis corolla *vetula.* 4.

brevioribus, ramis tetragonis erectis, basi floriferis. *Hort. kew. ed. 2. v. 2. p. 93.—Masson's stap. 15. t. 16.*

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. 1793.

Obs. *Flores* non examinavi. *Habitus* hujus et sequentis fere *Stapeliarum* æquilateralium, at absque pubescentia.

- Simsii.* T? (Sims's) ramorum dentibus obesis, corollis
 5. inapertis ventricosis, apertis laciniis ovato-
 acuminatis quinquenerviis atris, ligulis luteis
 retuso-3-cuspidatis, staminibus divaricatis
 fissis, segmentis valde subulatis.—*Stapelia ve-*
tula. Bot. magaz. 1234, exclusis synonymis.

HABITAT C. B. S.

S. h.

FLORET

INTROD. ante 1800.

OBS. I possess this plant, but having no flowers,
 have drawn this description from the above
 cited figure, which widely disagrees with the
vetula of Masson.

TROMOTRICHE.

Corolla lævis, revoluta, ciliis tremantibus spathu-
 latis! *Ligulæ* 5, basi connatæ horizontales,
 cuneato-rhombæ emarginatæ serratæve.
Stamina inæqualiter bifida, ramo intimo re-
 curvo longiore graciliore: apice sensim incre-
 sato inde stigma simulante. Character ex
 sicco.

OBS. Habitus fere Stapeliarum æquilateralium,
 at ramis nudis glaucissimis, vel potius prui-
 nosis, subinde sesquipedalibus inferne ramosis,
 erecto-decumbentibus, dentibus distantibus
 parvulis horizontalibus, s. subrecurvantibus.

- revoluta.* T. (Revolute) ramis erectis denticulatis: denti-
 1. bus patentibus, corolla glabra, laciniis ciliatis
 acutis revolutis. *Masson's stap.* 12. t. 10.—
Bot. mag. 724.—*Hort. kew. ed.* 2. v. 2.
 p. 85.

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. 1790.

T. (Glaucous) *Stapelia glauca*, Hortorum. *glauca.*

HABITAT C. B. S. S. h. 2.

FLORET Aug.—Nov.

INTROD. 1799. *Donn's hort. cantab. ed. 6. p. 66. no. 3.*

OBS. Præcedenti longe elatior. Flores siccatos solum possideo.

β. Floribus fuscis.

T? (Plum-colour'd) ramis tetragonis dentatis: pruino-
dentibus recurvatis, laciniis corollarum planis sa.
ovatis pilosis. *Masson's stap. 24. t. 41. 3.*

HABITAT C. B. S. S. h.

FLORET Jun. Jul.

INTROD. 1795.

ORBEA.

Corolla 5 fida toto internè corrugata stellaris ;
ante lacinias orbe prægrandi elevata. *Ligulæ*
patulæ longæ, apice 2-3-dentatæ. *Stamina*
inæqualiter bifida, ramo intimo longiore re-
curvo styliformi ; apice clavato, stigmati-
formi.

Habitus Podanthidis, ramis robustioribus minus
effusis, senectis decumbenti-repentibus, denti-
bus minoribus horizontalibus, nec adscenden-
tibus.

* *Ramis viridioribus, dentibus acutioribus di-
stantioribus.*

O. (Spotted) corolla ciliata, orbe mediocri pu-
bescente ; ligulis apice subtridentatis.—*Sta- maculo-*
pelia mixta. Donn's hort. cant. ed. 4. 5. et 6. 1.
*sed S. maculosa ed. prior. **

HABITAT C. B. S. S. h.

FLORET Sept.

INTROD. ante 1804.

OBS. *Corolla* maxima altè 5-fida præcarnosa ru-

gulosa, laciniis rotundato-ellipticis sordidè flavicantibus apice margineque rubris, maculis magnis creberrimis sordidè rubis confluentibus fere tectis; præcipue basin versus; inde basis rufa evadit, striolis reticulantibus flaviculis. *Orbis* elevatus, at parvulus ratione magnæ corollæ, undatus. *Fundus* acetabuliformis. *Ligulæ* ad orbem extensæ vel plus, apice 2-3-dentatæ, fusco-griseæ, basi pallidæ maculâ distinctâ fuscâ. *Staminum* extrema lacinia lorata obtusa grisea; intima longior styloidea teres recurva, supernè sensim incrassata, apice stigmatiformi punctis minutis scabris nigris. *Tabula Styli* 5-gona, stigmatibus trapeziformibus inter baseos staminum, subporrectis pullis.

Obs. *Rami* fere ut in *O. variegata*, at sesquimajores longioresque, valde ramosi decumbentes radicantes tetragoni, dentibus deltoidibus.

mixta.
2.

O? (Mixed) denticulis ramorum subrecurvis, floribus pedunculatis nutantibus; corollis glabris centro orbiculo elevato papilloso: laciniis ovatis acuminatis rugosis. *Masson's stap.* 23. t. 38.

HABITAT C. B. S.

S. h.

"FLOREBAT in Horto kewensi 1796." *Masson.*
l. c.

Obs. This being a very distinct plant, it is difficult to say why the Authors of *Hortus Kewensis* have omitted to insert it, with *Masson's* other species, as it is recorded to have flowered in the Garden.

quinque-nervia.
3.

*

O. (Five-nerv'd) corolla altè 5-fida utrinque 5-nervia, ligulis, tridentatis, dente intermedio longè diminuto, ramis viridibus rufo maculatis.

HABITAT C. B. S.

S. h.

FLORET Oct. Nov.

INTROD. ante 1810.

OBS. *O. variegata* major, ramis 4-gonis, dentibus magnis horizontalibus deltoideis subdecurrentibus. *Pedunculi* 2 unciales debiles teretes. *Corolla* laciniis orbiculato-ellipticis, sulphurea minus maculata quam in *O. bisulca*, supernè certis lucis utrinque maculis fusco-purpureis. *Ligulæ* luteæ basi maculâ sanguineâ; apicem versus fusco distinctè punctatæ. *Stamina* bifida fere ut in *O. bisulca*, lutea atro-rufa punctata.

OBS. *Corolla*, *Ligulæque* altius fissæ quam in *O. bisulca*, et longe pallidiores.

O. (Bisulcated) *Corolla* 5-fida, ligulis oblongis *bisulca*.
emarginatis: foliolis calycinis latè ovatis acuminatis, ramis crassis viridibus immaculatis. 4.
—*Stapelia bisulca*: et *S. trisulca*. *Donn's hort. cantab. ed. 6. p. 67.* *

HABITAT C. B. S.

S. h.

FLORET Oct.

INTROD. ante 1806.

OBS. Flores corrugati fere ut in affinibus, sordidè lutei, maculis atro-rufis subrotundis fere tecti, præcipue basin versus. *Orbis* magnus sulphureus, maculis atro-rufis paucioribus, margine lateraliter acuto. *Ligulæ* expansæ adscendentes loratæ altè emarginatæ luteæ, basi maculâ insolidâ, (i. e. medio pallidior) atro-rufâ; apicem versus crebrè spadiceo punctatæ. *Stamina* bifida lutea atro-rufa punctis elevatis, exteriore ramo extus porrecto filiformi, interiore erecto flexo; apice incrassato stigmatiformi. *Tabula Styli* 5-angularis alba,

angulis stigmatiferis luteis. An verè a sequente distincta?

variegata. O. (Variegated) Orbe prægrandi, ligulis bifurcatis.—*Stapelia variegata*. Lin. sp. pl. 316.

5. —*Asclepias Aizoides Africana*. Bradl. succ. 3. p. 3. t. 22.—*Asclepias Aizoides aphylla*, flore *Fritillariæ*, siliquis longis angustis erectis. Moris. hist. 3. p. 610. s. 15. t. 3. f. 4.

HABITAT C. B. S.

S. h.

CULT. by Professor Bradley before 1727.

Curtisii. O. (Curtis's) corolla sulphurea, ligulis integerimis.—*Stapelia variegata*. Curtis bot. mag. 26. exclusis synonymis, quæ ad antecedentem pertinent.

6.

HABITAT C. B. S.

S. h.

FLORET Aug.

CULT. by Mr. Curtis 1787, and in Chelsea Physic Garden for ages.

orbicularis. O. (Large Orb'd) ramis plurimis erecto-patentibus, tetragonis, dentatis; corollis quinquefidis, in medio orbiculatis, densissime punctatis; laciniis cordatis, rugosis, striatis, fuscatis.—*Bot. repos. vol. 7. t. 448*.

7.

HABITAT C. B. S.

S. h.

FLORET Jul.—Nov.

INTROD. 1799.

OBS. From the above vague description it is impossible to understand this plant. I possess one alive under this name, which extremely resembles the following. But I have not flowered either.

bufonia. O. (Toad) ramis tereti-tetragonis dentibus minutis.

8.

* HABITAT C. B. S.

S. h.

FLORET Aug.

INTROD. ante 1806.

OBS. *Rami* teretiores quam in cæteris hujus generis, denticulis omnium minoribus horizontalibus. *Flores* non possideo.

** *Ramis* glaucioribus, *dentibus* obtusioribus *tumidioribus* (quasi *mammæformibus*) *magisque approximatis*.

O. (Retuse) orbe prægrandi, ligulis prælongis *retusa*.
loratis retusis. 9.

HABITAT C. B. S.

S. h.

FLORET Sept.

INTROD. ante 1808.

OBS. *Rami* simillimi *O. anguinæ*, paulove crassiores. *Florem* unum tantum vidi, longè pedunculatum, a ramulorum basi, 5-fidum fere ad basin, laciniis deltoidibus rugosissimis, intus flavescentibus, maculis punctis striolisque atro-rufis; præcipuè basin versus, extus 5-nerviis ut in omnibus. *Orbis* pallidior magis rugosus, maculis paucioribus, fundo concolore. *Ligulæ* incurvæ orbe breviores retusæ, virescentes, crebris punctis rufis minutissimis. *Stamina* fere ut in *O. anguinea*, (lente) tuberculis sparsis minimis nigris.

O. (Snake) orbe magno, ligulis semipartitis. *anguinea*.

HABITAT C. B. S.

S. h. *nea*.

FLORET Aug. Sept.

10.

INTROD. ante 1806.

*

OBS. *Florem* unum (morientem) solum vidi, luteum atro-rufo præmaculatum, pedunculo longo a basi ramulorum. *Orbis* maculis grandibus difformibus, genitalia versus confluentibus, atro-rufis, infernè lateribus luteis. *Stamina* bifida supernè atro-rufo punctata, altero ramo

subulato obtuso; altero revoluta apicibus obtusis stigmatiformibus.

- picta*.
11. O. (Painted) ramis simplicibus 4-sulcatis torulosis, corollis semi-5-fidis nudis: laciniis ovato-acuminatis rugosis; annulo orbiculari elevato rugosissimo medio depresso papuloso, nectarii infimi laciniis patentibus apice bifidis.
—*Bot. mag.* 1169.

HABITAT C. B. S.

S. h.

FLORET Sept.

INTROD. ante 1801.

OBS. Simillima præcedenti, at ramis duplo minoribus, apice roseis.

- Woodfordiana*. O. (Woodford's) *Stapelia Woodfordiana*, *Hor-torum*.

12. HABITAT C. B. S.

S. h.

*

FLORET

INTROD. circa 1805.

OBS. Vivam possideo absque floribus. Ultimæ, penultimæque, simillima.

OBESIA.

Orbis nullus. *Ligulæ* nullæ. *Stamina* bipartita lutea, parvula crassa truncata, apice erosula; extimo ramo patente; intimo graciliore semicylindrico, super tabulam styli arcuè incurvo.

OBS. Ramorum articuli perbreves suboblongi, valde obesi obsolete angulati, radicantes, denticulis parvis horizontalibus. Flores parvuli subgeminati.

- geminata*. O. (Twin-flower'd) ramorum articulis proliferis reptantibus subovalibus, obsolete 4-gonis, floribus sæpius geminatis.—*Stapelia gemina-*
1.

ta. *Masson. stap.* 18. t. 105.—*Hort. kew.* ed. 2. v. 2. p. 95.—*Bot. mag. t.* 1326.

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. 1795.

OBS. *Corolla* subcampanulato-patula 5-partita fere ad basin, absque orbe; laciniis lanceolato-acuminatis intus (in lente) brevissime hirtis punctis minutissimis rubris. *Tabula Styli* recondita flavescens 5-angularis parva.

O? (Dotted) articulis ramorum oblongis sub-4 puncta-
gonis dentatis. Floribus fasciculatis; corolla-
larum laciniis lanceolatis acutis patentibus, 2.
supra papillosis.—*Masson's stap.* 18. t. 24.
—*Hort. kew. ed.* 2. v. 2. p. 92.

HABITAT C. B. S.

S. y.

FLORET Sept.

INTROD. 1795.

O? (Neat) articulis ramorum oblongis subtere- *decora.*
tibus dentatis. Floribus geminatis; corolla- 3.
rum laciniis lanceolatis acutis, supra scabrosis,
margine revolutis. *Masson's stap.* 19. t. 26.
—*Hort. kew. ed.* 2. v. 2. p. 93.

HABITAT C. B. S.

S. h.

FLORET

INTROD. 1795.

PIARANTHUS. *Brown's Asclep.* 11.

Corolla campanulata, 5-fida, carnosae. *Columna* fructificationis inclusa. *Corona staminea* simplex, 5-phylla, foliolis dorso dentatis. *Antheræ* apice simplices. *Massæ pollinis* erectæ, basi affixæ, altero margine cartilagineo-pellucido. *Stigma* muticum. *Brown. l. c.*

- pullus*. P. subhexagon~~us~~ erectus, aculeis patentissimis,
 1. floribus sessilibus aggregatis: corollarum laciniis lanceolatis, supra holosericeis replicatis.
 —*Stapelia pulla*. Masson's stap. 21. 31.—
Willd. sp. pl. 1. p. 1288.—*Hort. kew. ed.* 2.
v. 2. p. 92.
 HABITAT C. B. S. S. h.
 FLORET Aug. Sept.
 INTROD. 1774.

DUVALIA.

Corolla laciniis ad latera, plus minus reflexis, vel arcuissimè refractis. *Ligulæ* nullæ. *Stamina* minuta cava caput aviculæ nudæ simulantia; ad angulos styli incurvatim adpressa. *Tabula Styli* rotunda parum repanda, depressuris 5 angulosis.

OBS. *Rami* breves proliferi fere ut in ultimo genere, at sæpe breviores et magis glomerati, valde radicales. *Corolla* sæpius basi orbe subliaræformi.

In memoriam H. A. Duval, auctoris enumerationis Plantarum Succulentarum in Horto Alenconjo, dixi.

* *Corollis ciliatis*.

- reclinata*. D. (Reclined) ramis pluribus 4-gonis reclinatis
 1. dentatis: dentibus acutis patentibus, corolla
 5-fida recurvata; laciniis patentibus replicatis
 fimbriatis.—*Masson's stap.* 19. t. 28.—*Bot. magaz.* 1396?
 HABITAT C. B. S. S. h.
 FLORET Aug. Sept.
 INTROD. 1795.

- elegans*. D. (Elegant) ramulis sesquiuncialibus densis,
 2. laciniis corollæ deltoideo-acuminatis subre-

flectentibus intus hirsutis.—*Stapelia elegans*.
Masson's stap. 19. t. 27.—*Bot. magaz.*
 1184.

HABITAT C. B. S.

S. h.

FLORET Aug.—Oct.

INTROD. 1795.

Obs. *Caules* tereti-4-goni, plus minus purpurascens denticulis senectis horizontalibus obsoletis subdeltoidibus, aristâ obsoletâ minutâ terminatis. *Flores* glomerati variè progredientes. *Pedunculi* teretes subunciales inæquales deflexi purpurascens. *Corolla* atro-purpurea, orbe parvo nitente intus pilis longis purpureis vestita. *Tabula Styli* rotunda nuda orbe pallidior (lente optimo) minutissimè et creberrimè asperata.

D. (Tufted) ramorum articulis vix uncialibus *cæspitodensissime* confertis, laciniis corollæ retrofractis. 3.
 tim conniventibus, orbe, tabula, staminibusque viridibus.—*Stapelia cæspitosa*. *Masson's stap.* 20. t. 29.—*Hort. kew. ed. 2. v. 2.* p. 88.

HABITAT C. B. S.

S. h.

FLORET Aug.—Nov.

INTROD. 1790.

Obs. *Cauliculi* cæspitosi suboblongi obsoletè pentagoni, denticulis ut in *R. elegante*. *Corollæ* laciniæ acuminatæ nudæ lateribus ciliis albis, a basi post medium. *Stamina* paulo pallidiora quam *Tabula Styli*, minora quam in *R. elegante*. *Stigmata* brunneo-varia.

β. *Corolla* aliquantillum pallidior.

** *Corollis omnino depilatis*.

D. (Radiated) ramis confertis brevibus; denticulis conicis acutis, corollæ laciniis distantibus 4. *radiata*.

replicatis nudis: fundo elevato tiaræformi,
pedunculis geminis. *Bot. magaz.* 619.

HABITAT C. B. S. S. h.

FLORET Sept. Oct.

INTROD. 1795.

tubercu- D. (Tubercled) *Stapelia tuberculata*, *Hortorum*.

lata. HABITAT C. B. S. S. h.

5. FLORET Jul.—Nov.

* INTROD. 1774.

OBS. Præcedente paulo minor, et paulo pallidior
magis angulata. Vivam possideo, at flores
non vidi.

læviga- D. (Smooth) *Stapelia lævigata*, *Hortorum*.

ta. HABITAT C. B. S. S. h.

6. FLORET....

* INTROD. ante 1808.

OBS. Vivam possideo, sed flores non vidi.

glomera- D. (Glomerated) *Stapelia glomerata*, *Horto-*
rum.

7. HABITAT C. B. S. S. h.

* FLORET....

INTROD. ante 1808.

OBS. Vivam possideo, sequenti similis at flores
non vidi.

compacta. D. (Compact) ramorum articulis uncialibus
densissime glomeratis, laciniis corollæ atro-

8. purpureis, retrofractim conniventibus; tabu-
* la styli staminibusque brunneis.

HABITAT C. B. S. S. h.

FLORET Aug.—Nov.

INTROD. ante 1800.

OBS. *Stamina* simulantia capita avicularum,
paululum pallidiora quam tabula Styli. *Stig-*
mata atro-purpurea variantia. Cætera ut in
prioribus.

CARALLUMA. *Brown's Asclep.* 14.

Corolla rotata profundè 5-fida. *Columna fructificationis* exerta. *Corona staminea* simplici serie 10-phylla; foliolis quinque antheris oppositis indivisis; reliquis bipartitis, subulatis. *Antheræ* apice simplices. *Massæ pollinis* erectæ, basi affixæ, marginibus simplicibus. *Stigma* muticum. *Folliculi* graciles, læves. *Semina* comosa. *Habitus* fere *Stapelie*. *Brown.* l. c.

- C. (Ascending) ramulis distantibus tetragonis *adscen-*
 elongatis gracilibus adscendentibus, apice flo- *dens.*
 res solitarios gerentibus: angulis denticulatis. 1.
 —*Stapelia adscendens.* *Roxb. coromand. v. 1.*
p. 28. t. 30.

HABITAT in Ind. Or.

S. h.

FLORET

INTROD. 1804.

Obs. *Carallum* of the Talingas. *Root* fibrous.
Stems several, perennial, succulent, about a
 foot or two high; at the base they rest on the
 ground, and strike root; above erect, four-
 sided: angles blunt, notched. *Branches* erect
 like the stems. *Leaves* alternate, sessile on
 the angles of the branches, lanced, very mi-
 nute. *Flowers* axillary, about the extremities
 of the branches, peduncled, generally single,
 erect, small, variegated with dark purple and
 yellow. *Calyx* to the bottom five-cleft: divi-
 sions lanced. *Roxb.* l. c.

- C. (Umbell'd) ramulis sub-confertis brevibus *umbella-*
 tetragonis crassis erectis, angulis dentatis: *ta.*
 floribus dense capitatis terminalibus.

HABITAT in Ind. Or.

S. h.

2.

*

FLORET

INTROD. 1804.

CHENOPODIUM. (Goosefoot.)

Gen. pl. 435.*Cal.* 5-phyl. 5-gonus. *Cor.* 0. *Sem.* 1, lenticulare, superum.*mariti-
mum.*

1.

C. (Sea) foliis subulatis carnosis semiteretibus, floribus glomeratis axillaribus. *Willd. sp. pl.*1. *p.* 1307.—*Eng. bot.* 633.

HABITAT in Angliæ maritimis.

H. ☉.

FLORET Aug.

SALSOLA. (Salt-wort.) *Gen. pl.* 437.*Calyx* 3-phyllus. *Cor.* 0. *Caps.* 1-sperm. *Sem.* cochleatum.*frutico-
sa.*

1.

S. (Shrubby) fruticosa, foliis carnosis teretibus obtusis imbricatis. *Willd. sp. pl.* 1316.—*Eng. bot.* 635.

HABITAT in Anglia.

H. ♀.

FLORET Aug.

TRIGYNIA.

BASELLA. *Gen. pl.* 520.*Cal.* 0. *Cor.* 7-fida: laciniis 2 oppositis latioribus, tandem baccata. *Sem.* 1.*rubra.*

1.

B. (Red) foliis planis, pedunculis simplicibus.*Willd. sp. pl.* 1. *p.* 1513.

HABITAT in Ind. Or.

St. ♂.

FLORET Jul.—Nov.

CULT. 1731.

alba.

2.

B. (White) foliis ovatis undatis, pedunculis simplicibus folio longioribus. *Willd. sp. pl.* 1. *p.* 1514.

HABITAT in Ind. Or.

St. ♂.

FLORET Jul.—Nov.

CULT. 1688.

B. (Shining) foliis subcordatis, pedunculis con- *lucida*.
fertis ramosis. *Willd. sp. pl.* 1. p. 1514. 3.

HABITAT in Ind. Or.

St. ☉.

FLORET Jul.—Oct.

INTROD. 1802.

B. (Heart-leav'd) foliis cordato-subrotundis, *cordifo-*
pedunculis simplicibus folio brevioribus. *Per- lia*.
soon. synopsis. 1. 331. 4.

HABITAT in Ind. Or.

St. ☉.

FLORET Aug.—Oct.

INTROD. circa 1802.

PORTULACCARIA. *Gen. pl.* 522.

Cal. 2-phyllus. *Petala* 5. *Sem.* 1. alato-tri-
quetrum.

P. (Purslane Tree) caule ramoso crasso ramu- *afra*.
lisque articulatis, foliis rotundis carnosus.— 1.

P. afra. Willd. sp. pl. 1. 1515.—*Plant. grass.*
132.

HABITAT in Africa.

S. ♀.

FLORET

INTROD. 1732.

TELEPHIUM. *Gen. pl.* 515.

Cal. 5-phyllus. *Petala* 5, receptaculo inserta.

Caps. 1-locularis, 3-valvis.

T. (True Orpine) foliis alternis. *Willd. sp. pl.* 1. *Impera-*
p. 1506.—*Hort. kew. ed.* 2. v. 2. p. 173. *ti.*

HABITAT in Gallia, Italia.

H. 4. 1.

FLORET Jun.—Aug.

CULT. 1658.

OBS. This Genus is admitted on account of its
close affinity to the Portulaccæ.

PENTAGYNIA.

LAROCHEA.

- Cal.* 1-phyllus, 5-fidus. *Cor.* 1. Petala infundibuliformia, 5-fida. *Squamæ* 5 ad basin germinis. *Caps.* 5. *Plant. grass.* cum icon.
- falcata.* L. (Falcated) foliis oppositis subconnatis glabris, in falcem reflexis. *Pl. grass.*—*Crassula obliqua.* Haworth in bot. rep. 414. (exclus. *synon.*)
1. HABITAT C. B. S. S. h.
FLORET Aug.—Oct.
INTROD. circa 1805.
- coccinea.* L? (Scarlet) foliis ovatis planis cartilagineo-ciliatis, basi connato-vaginantibus. *Willd. sp. pl.* 1. 1547.—*Cras. coccinea.* *Burm. afr. t.* 23. *f.* 1.—Cotyledon africana frutescens flore umbellato coccineo. *Comm. rar.* 24. *t.* 24.
2. HABITAT C. B. S. S. h.
FLORET Jun.—Aug.
INTROD. circa 1810.
β. floribus albis. *Brad. succ. t.* 50.
- cymosa.* L? (Cymose) foliis linearibus cartilagineo-ciliatis connato-vaginantibus, caule fruticoso, cyma terminali. *Willd. sp. pl.* 2. 1548.—*Cras. cymosa:*
3. HABITAT C. B. S. S. h.
FLORET Aug.
INTROD. circa 1800.
- flava.* L? (Yellow) foliis planis connato-perfoliatis lævibus, floribus corymboso-paniculatis. *Willd. sp. pl.* 2. 1548.—*Cras. flava.* *Burm. afr. t.* 23. 2.
- 4.

HABITAT C. B. S. S. h.
FLORET Aug. Sept.
INTROD. circa 1802.

L? (Sweet-scented) foliis lineari-lanceolatis odoratis-
cartilagineo-ciliatis basi connato-vaginantibus. *sima.*
bus, floribus capitatis. Kenn. in bot. rep. 5.
t. 26 — *Cras. odoratissima.*

HABITAT C. B. S. S. h.
FLORET Jun. Jul.
INTROD. 1793.

CRASSULA. Gen. pl. 593.

Cal. 5-phyllus. Petala 5. Squamæ 5. nectari-
feræ ad basin germinis. Caps. 5.

* *Frutescentes, foliis subulatis.*

C. (Perfoliate) foliis lanceolato-subulatis sessi- *perfolia-*
libus connatis canaliculatis: subtus convexis. *ta.*
Willd. sp. pl. 2. 1549. 1.

HABITAT C. B. S. S. h.
FLORET Aug. Sept.
CULT. 1725.
 α . floribus coccineis.
 β . floribus albis.

C. (Branching) fruticosa, foliis subulatis supra *ramosa.*
planis connato-perfoliatis lævibus patentissi- 2.
mis, pedunculis elongatis, floribus cymosis.
Hort. kew. ed. 2. v. 2. p. 191.

HABITAT C. B. S. S. h.
FLORET Jul. Aug.
INTROD. 1774.

C. (Square) foliis subincurvis obsolete tetrago- *tetrago-*
nis patentibus, caule erecto arborescente *ra-*
dicante. *Willd. sp. pl. 1. 1551.—Plant. 3.*
grass. 19.—Brad. succ. t. 41.

HABITAT C. B. S.

G. H. h.

FLORET Aug.

INTROD. 1714.

mollis.

4.

C. (Soft) foliis semicylindraceutis acutis subtus gibbis lævibus suberectis, cymis terminalibus compositis. *Willd. sp. pl.* 1. 1551.

HABITAT C. B. S.

S. h.

FLORET Aug.

INTROD. 1774.

acutifolia.

5.

C. (Acute-leav'd) foliis oppositis carnosis terti-subulatis patentibus, cyma parva pedunculata. *Persoon. synopsis*, 339.—*Pl. grass. cum icone*.

HABITAT in Grecia?

G. H. h.

FLORET Sept.—Nov.

INTROD. ante 1795.

** *Frutescentes, foliis latioribus lævibus.**arborescens.*

6.

C. (Tree) foliis subrotundis carnosis supra punctatis, caule arboreo. *Hort. kew. ed.* 1.—*Bot. mag.* 384.—*C. arborescens. Mill. dict. ed.* 8.—*Hort. kew. ed.* 2. v. 2. p. 193.—*Willd. sp. pl.* 1. 1554.

HABITAT C. B. S.

G. H. h.

FLORET Mai. Jun.

CULT. 1739.

obliqua.

7.

C. (Oblique) foliis oppositis ovatis obliquis integerrimis acutis distinctis margine subcartilagineis. *Willd. sp. pl.* 1. 1553.—*Crassula Portulacea. Pl. grass.* 79.

HABITAT C. B. S.

S. h.

FLORET Apr. Mai.

CULT. 1759.

lactea.

8.

C. (White-flower'd) caule fruticoso, foliis ovatis basi attenuatis connatis integerrimis intra

marginem punctatis cymis paniculæformibus.
Willd. sp. pl. 1. p. 1554.—Hort. kew. ed. 2.
v 2. p. 193.—Plant. grass. cum icone.

HABITAT C. B. S. G. H. h.

FLORET Jan.

INTROD. 1774.

*** *Frutescentes, foliis latioribus distantibus, subciliatis.*

C. (Ciliated) foliis oppositis ovalibus planius- *ciliata.*
 culis distinctis ciliatis, corymbis terminalibus. 9.

Willd. sp. pl. 1. 1558.—Plant. grass. 7.—
Dill. elth. p. 98. f. 116.

HABITAT C. B. S. G. H. h.

FLORET Jul. Aug.

CULT. 1732.

C. (Wave-leav'd) foliis connatis ovatis expan- *undula-*
 sis cartilagineo-crenatis, summis ovato-ellip- *ta.*
 ticus undulato-incurvis, caule dichotomo suf- 10.
 fruticoso. *Haworth. misc. nat. 176. 3.* *

HABITAT C. B. S. S. h.

FLORET Aug.—Nov.

INTROD. circa 1797.

C. (Rough) foliis oppositis patentibus connatis *scabra.*
 scabris ciliatis, caule retrorsum scabro. 11.

Willd. sp. pl. 1. 1549.

HABITAT C. B. S. G. H. h.

FLORET Jun. Jul.

CULT. 1730.

C. (Double-convex) foliis linearibus obtusis *bicon-*
 vaginantibus utrinque convexis cartilagineo- *vexa.*
 ciliatis, floribus cymosis, caulibus decumben- 12.
 tibus. *Haworth. misc. nat. 176. 2.* *

HABITAT C. B. S. S. u.

FLORET Aug.

INTROD. circa 1800.

**** *Frutescentes, foliis latioribus densissimè imbricatis.*

- columnaris.* C. (Columnar) caule pollicari, foliis rotundis imbricatis, fasciculo florum subrotundo terminali. *Willd. sp. pl.* 1. 1557.—*Euphorbium aphyllum*, &c. *Burm. afr. t.* 9. f. 2.

13.

HABITAT C. B. S.

S. h.

FLORET

INTROD. 1789.

- imbricata.* C. (Whipcord) foliis ovatis acutis 4-fariam imbricatis lævibus, floribus axillaribus sessilibus. *Willd. sp. pl.* 1. 1552.

14.

HABITAT C. B. S.

G. H. h.

FLORET Jul.

INTROD. circa 1760.

***** *Foliis latis, nec subulatis, altè perfoliatis.*

- perfilata.* C. (Filed) foliis connato-perfoliatis cordatis punctatis. *Scop. del. insul.* 3. t. 6. C.—*Crassula perfossa. Plant. grass. cum icone.*—*Crassula punctata. Mill. dict. ed.* 8.—*Crassula connata. Donn's cant. ed.* 6. 79. 5.

15.

HABITAT C. B. S.

S. h.

FLORET Sept.

CULT. circa 1785.

OBS. Caules lignosi tenues diffuso-prostrati, undique foliis glaucis vix distantibus horizontalibus perfoliatis subtus convexis instructi. Rarissimè variat foliis alternis perfoliatis.

- punctata.* C. (Dotted) foliis oppositis ovatis punctatis ciliatis: inferioribus oblongis. *Willd. sp. pl.* 1. 1551.—*Hort. kew. ed.* 2. v. 2. p. 193. excluso

16.

synonymo Milleri, quod potius ad præcedentem pertinet.

HABITAT C. B. S. S. h.

FLORET Ap.—Aug.

CULT. 1759. *Hort. kew. l. c.*

C. (Dotted-edged) caule fruticoso, foliis corda- margi-
tis perfoliatis acuminatis planis patentibus in- nalis.
tra marginem punctatis. *Willd. sp. pl. 1. 17.*
1553.

HABITAT C. B. S. G. H. h.

FLORET Aug.

INTROD. 1774.

C. (Pellucid) caule flaccido repente, foliis op- pelluci-
positis. *Willd. sp. pl. 1. 1564.—Dill. elth. da.*
t. 100. f. 119. 18.

HABITAT C. B. S. G. H. h.

FLORET Jun.—Sept.

CULT. 1732.

***** *Foliis petiolatis.*

C. (Notch-leav'd) foliis petiolatis cordato-sub- spathu-
rotundis acutiusculis crenatis, corymbis pani- lata.
culæformibus. *Willd. sp. pl. 1. 1553.— 19.*
Plant. grass. cum icone.

HABITAT C. B. S. G. H. h.

FLORET Jul.—Nov.

INTROD. 1774.

C. (Heart-leav'd) caule fruticoso, foliis petiola- cordata.
tis cordatis obtusis integerrimis, cymis pani- 20.
culæformibus. *Willd. sp. pl. 1. 1553.—*
Plant. grass. cum icone.

HABITAT C. B. S. S. h.

FLORET Aug. Sept.

INTROD. 1774.

***** *Herbaceæ, scapis radicalibus.*

- tomento-* C. (Tomentose) villosa-scabra, foliis connatis
sa. lanceolatis villosis ciliatis, caule subnudo ter-
 21. minato spica verticillata. *Willd. sp. pl.* 1.
 1563.—*C. foliis connatis lanceolatis villosis*
ciliatis, caule subaphyllo, floribus verticillatis.
Thunb. prod. 56.

HABITAT C. B. S.

St. h.

FLORET Apr. Mai.

INTROD. 1790.

- linguæ-* C. (Tongue-leav'd) foliis infimis distinctis op-
folia. positis linguæformibus ciliatis pubescentibus,
 22. floribus verticillatis confertis sessilibus, caule
 * folioso. *Haworth. misc. nat.* 175. 1.

HABITAT C. B. S.

S. 4.

FLORET Aug.

INTROD. ante 1803.

OBS. Forte mera varietas præcedentis, at foliis
 minus villosa-scabris, scapoque valde folioso.

- Cotyle-* C. (Cotyledon) foliis connatis oblongis tomen-
don. tosis ciliatis, caule subnudo, floribus corym-
 23. bosis aggregatis. *Linn. supp.* 190—*Willd.*
sp. pl. 1. 1558.

HABITAT C. B. S.

S. 4 ?

FLORET

INTROD. ante 1800.

OBS. Semel vidi crescentem, regio horto Kew-
 ense.

- orbicula-* C. (Starry) sarmentis proliferis determinate-fo-
ris. liosis, foliis patentissimis imbricatis. *Willd.*
 24. *sp. pl.* 1. 1563.—*Plant. grass. cum icone.*

HABITAT C. B. S.

G. H. 4.

FLORET Jul.—Nov.

CULT. 1731.

***** *Annua s. biennes.*

C. (Orange-flower'd) foliis connatis oblongis *retro-*
remotis planis, caule simplici, cyma compo- *flexa.*
sita, pedicellis retrofractis. *Willd. sp. pl.* 1. 25.
1555. †

HABITAT C. B. S. G. H. ○.

FLORET Jun.

INTROD. 1788. *Hort. kew. ed. 2. v. 2. p.* 194.
20.

C. (Channel'd) caule herbaceo, foliis cordatis *lineolata.*
sessilibus, pedunculis subterminalibus axillari- 26.
bus approximatis umbellæformibus. *Willd.* †
sp. pl. 1. p. 1555.

HABITAT C. B. S. D. S. ♂.

FLORET Jun.—Aug.

INTROD. 1774, *Hort. kew. ed. 2. v. 2. p.* 194.

C. (Centauri-flower'd) caule herbaceo dichoto- *centau-*
mo, foliis sessilibus oblongo-ovatis cordatis *roides.*
planis, pedunculis axillaribus unifloris. 27.
Willd. sp. pl. 1. 1555. †

HABITAT C. B. S. D. S. ♂.

FLORET Mai. Jun.

INTROD. 1774, *Hort. kew. ed. 2. v. 2. p.* 194.

C. (Forked) caule herbaceo dichotomo, foliis *dichoto-*
sessilibus ovato-oblongis canaliculatis recur- *ma.*
vatis, pedunculis axillaribus unifloris. *Willd.* 28.
sp. pl. 1. p. 1555. †

HABITAT C. B. S. D. S. ○.

FLORET Jun. Jul.

INTROD. 1774, *Hort. kew. ed. 2. v. 2. p.* 195.

C. (Rough, cluster'd) caule valde dichotomo *glomera-*
scabro, foliis lanceolato-linearibus, floribus *ta.*
ultimis fasciculatis, caule scabrido.—*Crassula* 29.

scabra, *α*. Willd. *sp. pl.* 1556.—*Hort. kew. ed. 2. v. 2. p.* 195.

HABITAT C. B. S.

G. H. ☉.

FLORET Aug.—Oct.

INTROD. 1774, at postquam periit. Reintroduxit communicavitque amicus Dom. Beak, 1811.

OBS. Caules scabri nec pubescentes. A semine crescit sine variatione.

glabra. C. (Smooth, cluster'd) caule dichotomo pubescente, foliis lineari-lanceolatis, floribus ultimis fasciculatis.—*Crassula glomerata*, *β*. Willd. *sp. pl.* 1556.—*Hort. kew. ed. 2. v. 2. p.* 195.

30.

*

HABITAT C. B. S.

G. H. ☉.

FLORET Jun.—Nov.

INTROD. 1774.

OBS. Præcedente triplo major. Folia sæpe reflexa. A semine semper crescit sine variatione.

Alooides. C. (Aloe-like) foliis ovatis distinctis acutis ciliatis, caule simplici pilosiusculo, racemo composito: ramis paniculæformibus. Willd. *sp. pl.* 1. 1557.

31.

†

HABITAT C. B. S.

D. S. ♂.

FLORET Jun.—Aug.

INTROD. 1774, *Hort. kew. ed. 2. v. 2. p.* 195.

capitella. C. (Square-spik'd) foliis oblongo-lanceolatis acutis, caule lævi, racemo elongato: floribus fasciculatis subsessilibus. Willd. *sp. pl.* 1. 1558.

32.

†

HABITAT C. B. S.

D. S. ♂.

FLORET Jul. Aug.

INTROD. 1774, *Hort. kew. ed. 2. v. 2. p.* 196.

- C. (Annual red) foliis fusiformibus subdepressis, cyma quadrifida foliosa, floribus sessilibus, staminibus reflexis. *Willd. sp. pl.* 1. p. 1560. 33.
—*Plant. grass. cum icon.*—*Hort. kew. ed.* 2. v. 2. p. 196.

HABITAT in Italia, et Helvetia. H. ☉.

FLORET Mai.—Aug.

CULT. 1759.

- C. (Whorl-flower'd) caule herbaceo, foliis patentibus, floribus verticillatis aristatis. *Willd. laris. sp. pl.* 1. 1561. 34.

HABITAT in Europa Australi. H. ☉. †

FLORET Jul.

INTROD. 1774, *Hort. kew. ed.* 2. v. 2. p. 196.

- C. (Awl-leav'd) foliis semicylindrico-subulatis, supra canaliculatis patentibus, pedunculis axillaribus solitariis unifloris, caulibus dichotomis. *Willd. sp. pl.* 1. 1561. 35. †

HABITAT C. B. S. D. S. ☉.

FLORET Jun. Jul.

INTROD. 1774, *Hort. kew. ed.* 2. v. 2. p. 197.

- C. (Alternate-leav'd) foliis alternis subspathulatis acutis integerrimis, racemo composito. *Willd. sp. pl.* 1. 1774. 36. †

HABITAT C. B. S. D. S. ♂.

FLORET Jul.

INTROD. 1774, *Hort. kew. ed.* 2. v. 2. p. 197.

- C. (Diffuse) foliis oblongis basi attenuatis remote crenatis, pedunculis oppositifoliis axillaribusque solitariis. *Willd. sp. pl.* 1. 1564. 37. †

HABITAT C. B. S. D. S. ☉.

FLORET Jul.

INTROD. 1774, *Hort. kew. ed.* 2. v. 2. p. 197.

- moschata. C. (New-Holland) foliis lineari-lanceolatis car-
 38. nosis, floribus tetrandris.—*Crassula moschata*,
caule herbaceo-procumbente foliis connato-ob-
longis acutis, pedunculis axillaribus unifloris,
floribus tetrandris. Willd. sp. pl. 1. 1561 ?

HABITAT in Nova Hollandia.

G. H. ☉.

FLORET Mai.—Nov.

INTROD. 1794.

OBS. Facies Tillææ. *Caules* senecti pene semi-
 pedales decumbentes tenues, ramis numerosis,
 sæpe patulis, plerumque oppositis. *Folia* te-
 nuiter perfoliata, horizontalia, 2-3-linearia vi-
 ridia, vel indies plus minus rufa. *Pedunculi*
 axillares uniflori fasciculatim verticillati, pri-
 mò perbreves, denique folio longiores, ca-
 pillares effusi. Cætera non examinavi. For-
 san Tillææ propria species: vel potius Genus
 proprium.

GLOBULEA.

Corolla petala 5, inaperto-erecta, apice globu-
 lum cerinum ferentia. Cætera Crassulæ.

OBS. Flores corymbosi demum capitulati. *Fo-*
lia crassa inferne convexa, altero margine lon-
 ge tenuiore acieformi, inde cultrata.

- cultrata. G. (Sharp-leav'd) foliis oppositis obovatis sub-
 1. cultratis obliquis connatis integerrimis.
Willd. sp. pl. 1. 1552.—*Cras. cultrata.* Hort.
kew. ed. 2. v. 2. p. 192.—*Dill. elth. t.* 97. f. 114.

HABITAT C. B. S.

G. H. ♀.

FLORET Jul. Aug.

CULT. 1732.

- obvallata. G. (Houseleek-leav'd) foliis oppositis sublan-
 2. ceolatis cultratis approximatis. *Willd. sp. pl.*
 1. 1552.—*Cras. obvallaris.*

HABITAT ad Caput Bonæ Spei. G. H. 4.

FLORET Jul. Aug.

CULT. 1795, *Hort. kew. ed. 2. v. 2. p. 193.*—

Plant. grass. cum icone.

OBS. Folia omnia radicalia decussatim imbricata, ciliata crassè cultriformia, altero margine longe attenuata.

G. (Grey) foliis omnibus radicalibus decussatim *canes-*
imbricatis ciliatis lorato-lanceolatis flexis cul- *cens.*
tratis pubescenti canescentibus. 3.

HABITAT C. B. S.

G. H. 4. *

FLORET Aug.

INTROD. circa 1800.

OBS. Ultimæ simillima, at folia longiora angustiora valde flexa; canescentia; præcipue juniora. Sequenti nimis forte affinis.

G. (Naked-stem'd) foliis subulatis radicalibus, *nudicau-*
caule nudo. *Willd. sp. pl. 1. 1562.*—*Cras. lis.*
nudicaulis. Plant. grass. cum icone. 4.

HABITAT C. B. S.

D. S. 4.

FLORET Verno, Autumnoque.

CULT. ante 1732, *Hort. kew. ed. 2. v. 2. p. 197.*

SEPTAS. *Gen. pl. 633.*

Calyx 2-partitus. Petala 7. Germina 7. Caps.
7, polyspermæ.

OBS. Radices tuberosæ, quotannis quiescentes;
folia rotundata carnosæ, caulina perfoliata.

G. (Cape) foliis oppositis connatis spathulato- *capensis.*
orbiculatis crenatis, floribus terminalibus um- 1.
bellatis.—*Crassula capensis. Willd. sp. pl.*
2. 292.—*Crassula Septas foliis connatis cre-*
natis subrotundis, caule subaphyllo umbellife-

ro. Thunb. prod. 57.—*Trientalis foliis subrotundis crenatis*. Roy. lugdb. 538.

Obs. Thunberg has reduced this genus to *Crassula*; but as the tuberous, and periodically quiescent root, and whole œconomy of the plant differ from genuine *Crassulæ*, it is better to remain as a genus; although I have observed the number of the stamina, &c. vary from 5 to 7. Any strong deviation in the external appearance of plants, from their nearest kindred, is usually accompanied by some corresponding diversity in their fructifying organs. *Crassula umbella* of Jacquin is subjoined as a second species. Both resemble in habit *Cotyledon Umbilicus* and *C. lutea*.

umbella. S. (Skreen) Scapi foliis duobus subcucullatis
2. connatis in orbiculum subtriangularem: floribus
cymoso-paniculatis, numerosis parvis.—*Crassula umbella*. Jacq. hort. vindob. v. 2. t. 352.

HABITAT C. B. S.

S. 4.

FLORET Jul.

Obs. Circa annum 1800, vidi pulchrè crescentem atque florentem, regio horto Kewense.

Classis VI.

HEXANDRIA

MONOGYNIA.

TRADESCANTIA. *Gen. pl.* 543.

Cal. 3-phyllus. *Petala* 3. *Filamenta* villis articulatis. *Caps.* 3-locularis. *Sem.* papilla embryotega instructa.

T. (Thick-leav'd) erecta, foliis ovatis margine *crassifolia* et subtus lanatis, floribus umbellato-congestis terminalibus. *Willd. sp. pl.* 2. 17.—*Salisb.* 1. *parad.* 59.

HABITAT in Mexico.

St. 4.

FLORET Jul.—Nov.

INTROD. 1796.

PHALANGIUM.

Cor. 6-petala, patens. *Filamenta* nuda s. glabra. *Caps.* ovata. *Sem.* angulata. *Radices* plerumque fibrosæ, aut fasciculatæ. *Folia* plana. *Flores* in plurimis albi aut purpurascens. *Pers. synop.* 367.

P. (Curl-flower'd) foliis trigonis scabris, scapo *revolutoramoso*, corollis revolutis. *Willd. sp. pl.* 2. *tum.* 138.—*Bot. magaz.* 1044. 1.

HABITAT C. B. S.

G. H. 4.

FLORET Sept.

CULT. 1731.

OBS. Folia erecto-effusa pedalia valde angusta compressa scabra succulenta.

ANTHERICUM.

Filamenta barbata erecta, cætera *Pkalangii*.
Folia fistulosa, sæpe succulenta. *Persoon*.
synops. 369.

Alooides A. (Aloe-leav'd) foliis carnosis linguæformi-
 1. lanceolatis, utrinque planiusculis. *Willd. sp.*
pl. 2. 143.—*Bot. mag.* 1317.—*Plont. grass.*
cum icone.

HABITAT C. B. S.

G. H. 4.

FLORET Jul.—Oct.

CULT. 1732.

frutes- A. (Shrubby) foliis carnosis teretibus, caule
cens. fruticoso erecto ramoso. *Willd. sp. pl.* 2.
 2. 142.—*Bot. magaz.* 816.

HABITAT C. B. S.

G. H. 2.

FLORET Jun.—Oct.

INTROD. 1702.

pugioni- A. (Dagger-leav'd) foliis carnosis linearibus
forme. acuminatis canaliculatis, scapo foliis duplo
 3. longiore. *Willd. sp. pl.* 2. 144.—*Jacq. hort.*
vind. t. 405.

HABITAT C. B. S.

G. H. 4.

FLORET Ap.—Jun.

INTROD. 1793.

longisca- A. (Long-scap'd) foliis carnosis subciliatis se-
pum. miteretibus flexuosis glaucis, scapo triquetro
 4. brevioribus. *Willd. sp. pl.* 2. 145.—*Jacq.*
hort. vind. t. 404.—*Bot. magaz.*—*A. (favo-*
sum) foliis carnosis semiteretibus scapo brevi-
 oribus, racemo erecto longissimo. *Thunb.*
prod. 63 ?

HABITAT C. B. S.

G. H. 4.

FLORET Jun.—Aug.

CULT. ante 1791.

OBS. *Folia* glauca marginibus integerrimis.

- A. (Asphodel) foliis carnosis lineari-subulatis *Aspho-*
semiteretibus strictis. Willd. sp. pl. 2. 144. deltoides.
—Jacq. hort. vind. v. 2. t. 181. 5.

HABITAT C. B. S.

G. H. 4.

FLORET Jun.—Aug.

CULT. 1759.

- A. (Annual) foliis carnosis subulatis teretiuscu- *annuum.*
lis, scapo subracemoso. Willd. sp. pl. 2. 6.
145.—Hort. kew. ed. 2. v. 2. p. 270.

HABITAT C. B. S.

H. ☉.

FLORET Jun.—Sept.

CULT. 1731.

SANSEVIERA.

Cor. infera monopetala; tubo filiformi, limbo
6-partito, revoluta. Stam. limbo inserta.
Bacca 1-sperma.—Persoon. synopsis, 1. 372.

* **LATIFOLIÆ.** *Foliis latè lanceolato-ensiformi-*
bis, absque venis.

- S. (Spreading glaucous) foliis subundecim pa- *glauc.*
tulis, subflaccidis, latè lanceolato-ensiformibus 1.
*glaucis, obsoletè fasciatis. **

HABITAT....

S. 4.

FLORET....

INTROD.

- S. (Upright glaucous) foliis sub-19 suberectis *poly-*
rigidis subfragilibus, latè lanceolato-ensifor- phylla.
mibus glaucis, obsoletè fasciatis. 2.

HABITAT....

S. 4. *

FLORET....

INTROD.

- S. (Guinea) foliis subtribus suberectis latè lan- *guineen-*
ceolato-ensiformibus viridibus valde fasciatis. sis.
—Sansevieria guineensis. Pers. syn. 1. 372.— 3.

Willd. sp. pl. 159.—*Aletris Hyacinthoides*
β. Linn. sp. pl. 456.—*Comm. hort.* 2. t. 30.

HABITAT in Guinea.

S. 4.

FLORET Jun.—Nov.

INTROD. 1690.

læte-virens. S. (Light-green) foliis subtribus patulis flaccidis lanceolato-ensiformibus pallidè viridibus, fasciis sæpius omnino oblitteratis.

4.

*

HABITAT

S. 4.

FLORET

INTROD.

spicata. S. (Spiked) angustior, foliis subundecim sub-
 5. erectis prærigidis fragilibus lanceolato-ensiformibus, fasciis valde obsoletis.—*Salimia spicata*, foliis rigidis canaliculatis maculatis, floribus spicatis. *Cav. ic.* 3. t. 246.

HABITAT

S. 4.

FLORET

INTROD. ante 1790.

** ANGUSTIFOLIÆ. Foliis angustè lanceolato-ensiformibus, lineatis infernè; subulaque tereti manifestè finientibus.

Zeylanica. S. (Various-leav'd) foliis sub-8 fasciatis; infimis suboblongis planis, sequentibus lineari-ensiformibus altè canaliculatis.—*Sansevieria Zeylanica*. *Willd. sp. pl.* 2. 159.—et *Persoon. synopsis*, 1. 372.—at exclusis synonymis *Cav. et Loureir.*—*Aletris Hyacinthoides*. *Linn. sp. pl.* 456.

6.

HABITAT in Zeylona.

S. 4.

FLORET Jun.—Nov.

INTROD. 1690.

ensifolia. S. (Sword-leav'd) foliis sub-15 erectis ensiformibus, obtusè carinatis lineatis.—*Sansevieria lanuginosa*. *Willd. sp. pl.* 2. 160?

7.

*

HABITAT in Ind. Or. St. 4.

FLORET

CULT.

OBS. *Folia* basi vix attenuata, altitudine sequentis, et similiter lineata.

S. (Large-pointed) foliis subduodecim, sub-*grandi-*
erectis, lanceolato-ensiformibus præfasciatis, *cuspidis*.
subulâ magnâ terminatis; subtus lineis 4—6 8.
longitudinalibus validis sæpe interruptis. *

HABITAT S. 4.

FLORET

INTROD.

S. (Dwarf) foliis subviginti; patulis, lanceolato-*pumila.*
ensiformibus præfasciatis; subtus lineis 4—6 9.
longitudinalibus validissimis sæpe interruptis. *

HABITAT C. B. S? S. 4.

FLORET

INTROD. ante 1796.

OBS. *Folia* breviora quam in priore.

DRACÆNA. Gen. pl. 574.

Cor. 6-partita, erecta. *Filam.* medio subcras-
siora. *Bacca* 3-ocularis, 1-sperma.

D. (Dragon Tree) arborea, foliis subcarnosis *Draco.*
apice spinosis. *Willd. sp. pl.* 2. 155.—*Hort.* 1.
kew. ed. 2. v. 2. p. 277.

HABITAT in Ind. Or. S. 4.

FLORET

CULT. 1640.

OBS. *Folia* lineari-ensiformia.

D. (Sword-leav'd Dragon Tree) arborea foliis *ensifolia.*
subcarnosis lanceolato-ensiformibus. 2.

HABITAT S. 4.

FLORET

INTROD. ante 1800.

OBS. 1. *Folia* duplo latiora quam in priore.

OBS. 2. *Dracæna* ensifolia aliorum, *Dianellæ* species est.

BONAPARTEA.

Calyx inferus, diphyllus: foliolis convolutis. *Petala* tria, in se invicem convoluta. *Filamenta* receptaculo inserta. *Antheræ* versatiles, exertæ. *Germen* pyramidale. *Stylus* triquetter. *Stigmata* tria, leviter fimbriata. *Cap-sula* trilocularis, trivalvis; valvulis medio septiferis. *Semina* numerosa, setâ terminata. *Receptacula* tria, linearia, per sinus columellæ centralis, triolata, decurrentia. *Fl. peruv. tom. 3. 38. t. 242.*

Juncea. B. (Rush-leav'd) foliis imbricatim capitatis multifariis erecto-recurvis, anguste pugioniformibus utrinque convexis rigidis carnosis viridibus.—*Bonaparteia Juncea*; foliis subulatis canaliculatis culmo longioribus, spicâ compositâ thyrsoidæ. *Fl. peruv. l.c.*

HABITAT in Peru.

D. S. 2. S. 2.

FLORET....

INTROD. 1800.

OBS. *Tillandsiæ* valde affinis; at Habitu potius *Yuccæ*. *Caudex* senectus brevis; *folia* pedalia, juniora collecto-conniventia ut in *Yuccâ*; seniora erecto-patula; antiqua recurva: omnia basi valde dilatata, arcuè imbricata, subciliato-filamentosa, apice aculeiformia pungentia. *Flores* non vidi.

YUCCA. (Adam's Needle.) *Gen. pl.* 580.
Cor. campanulato-patens. Stylus nullus. Caps.
3-locularis.

Y. (Aloe-leav'd) foliis crenulatis strictis. *Willd. Aloifo-*
sp. pl. 2. 183.—*Hort. kew. ed. 2. v. 2. p. 291. lia.*
 —*Yucca gloriosa. Bot. rep.* 473. *monente Bot.* 1.
mag.

HABITAT in Jamaica—Vera Cruce. G. H. h.
 FLORET Aug. Sept.
 CULT. 1696.

Y. (Drooping-leav'd) foliis crenatis nutanti- *Draco-*
bus. Willd. sp. pl. 2. 184.—*Hort. kew. ed. 2. nis.*
v. 2. p. 291. 2.

HABITAT in Carolina Australiore. G. H. h.
 FLORET Oct. Nov.
 CULT. 1732.

Y. (Oblique-leav'd) foliis lanceolato-linearibus *obliqua.*
oblique undato-flexis integerrimis. 3.

HABITAT.... S. h. *

FLORET....

CULT. ante 1808.

Y. (Broad, entire-leav'd) foliis lineari-lanceo- *gloriosa.*
latis integerrimis erectis. Yucca gloriosa, fo- 4.
liis integerrimis. Willd: sp. pl. 2. 183.—
Hort. kew. ed. 2. v. 2. p. 291.—Bot. magaz.
 1260.

HABITAT in Carolina Australiore. H. h.
 FLORET Aug. Sept.
 INTROD. 1732.

Y. (Recurve-leav'd) foliis viridibus, recurvo-de- *recurva.*
flexis; margine rare filamentosis; petalis in- 5.
terioribus parum latioribus. Salisb. parad.
lond. 31.

HABITAT in Georgia. H. h.

- FLORET Aug.
INTROD. ante 1795.
- serrulata.* Y. (Broad rough-edg'd) foliis lineari-lanceolatis erectis serrulatis.
6. HABITAT in Carolina. G. H. 2.
* FLORET
INTROD. ante 1808.
OBS. Y. gloriosæ simillima, at satis differt foliorum marginibus minute crenulatis.
- filamentosa.* Y. (Thready-edg'd) foliis serrato-filiferis. Willd.
7. *sp. pl.* 2. 184.—*Hort. kew. ed.* 2. v. 2. p. 291.
—*Bot. magaz.* 900.
HABITAT in Virginia. H. 2.
FLORET Sept. Oct.
CULT. 1675.

AGAVE. *Gen. pl.* 582.

Cor. supera, 6-partita, erecta. *Filam. corolla*
longiora, erecta. *Antheræ* versatiles.

* *Foliis glaucis.*

- americana.* A. (Common) scapo ramoso, stylo filamentis
1. longiore, foliis glaucis margine concoloribus.
—*Agave americana.* Willd. *sp. pl.* 2. 192.
Hort. kew. ed. 2. v. 2. p. 301.
HABITAT in America calidiore. G. H. 4.
FLORET Aug.—Oct.
CULT. 1640.
β. foliis margine latè eleganterque luteis.
OBS. This is the plant which is called "Aloe" by
people uninformed in botany, and supposed by
them to flower but once in a hundred years; and
was formerly said to have made a report louder
than a gun when it blossomed. It is never-
theless capable of flowering even in England,

in three or four score years, if properly treated; and in its native climate at about a dozen years old: and in some very hot countries it is said to blossom in three or four years. After flowering, the old plant dies; leaving numerous offsets to succeed it. The tale of its making a louder report than a pistol arose from the rarity of its flowering being more *talked of*, and consequently in that manner making a greater noise than a gun. It was introduced into Europe by Cortusius in 1561, and is now used for hedges in Spain and Portugal; and in South America, its native country, quantities of fine wine are made from fermenting a juice which is obtained from cutting down the flower stem on its first appearance; each stem yielding many gallons of fluid, which is also occasionally drunk pure and wholesome as it issues, without having undergone the vinous fermentation. To describe the flowers or lofty stem, often twenty-five feet high, or even its unexampled quickness of growth (rapid, as that of the plant is slow, compensating for past delay), is superfluous, as almost every one has now seen an advertised "Aloe" in bloom.

A. (Miller's) foliis dentato-spinosis, scapo simplicissimo. *Mill. dict. ed. 8.—Agave virginica* : nec *A. virginica aliorum.* *Milleri.* 2.

HABITAT....

G. H. 4.

FLORET....

CULT. ante 1768.

OBS. This is able to live in the Greenhouse, while the next cannot be preserved but in a good stove. They are much alike, yet appear distinct.

flaccida. A. (Flaccid) foliis angusto-lanceolatis flaccido-recurvis, spinis marginalibus minutis.

3.

*

HABITAT in America calidiore? S. h.

FLORET....

CULT. ante 1790.

OBS. In horto Kewense, et Chelseiano, solum vidi.

Vera-crucis.

A. (Broad Vera-cruz) foliis oblongis marginibus spinosissimis nigricantibus. *Mill. dict. ed. 8.*

4.

Agave 7.—Agave lurida. Hort. kew. ed. 2. v. 2. p. 302.—Willd. sp. pl. 2. 194.

HABITAT in Vera Cruce.

S. h.

FLORET....

CULT. 1731.

angustifolia.

A. (Narrow-leav'd) caulescens, foliis anguste lanceolatis glaucis dentato-serratis.

5.

HABITAT....

G. H. h.

FLORET....

CULT. ante 1790.

OBS. Folia angustissima omnium.

*** *Foliis viridibus, vel virescentibus.*

Karatto. A. (Karatto) foliis erectis læte virentibus, marginibus fuscis minimè serratis. *Mill. dict. ed. 8.*

6.

*Agave 6. Nec Agave americana.**β. Hort. kew. ed. 2. v. 2. p. 300.*

HABITAT in America calidiore.

S. 4.

FLORET....

CULT. ante 1768.

vivipara.

A. (Viviparous) acaulis, foliis dentatis, scapo ramoso, tubo corollæ medio angustato, staminibus corollam æquantibus. *Willd. sp. pl. 2. 193.—Hort. kew. ed. 2. v. 2. p. 193.*

7.

HABITAT in America calidiore.

S. 4.

FLORET Aug.—Oct.

CULT. 1731.

A. (Virginia) scapo simplicissimo foliis minu- *virgini-*
tissime serrulatis.—*Agave virginica*. Willd. *ca.*
sp. pl. 2. 193.—*Ait. hort. kew. ed. 2. v. 2.* 8.
p. 302.

HABITAT in America Septent.

F. 4.

FLORET Sept.

INTROD. 1765.

OBS. There are still other species, or at least va-
rieties, of this stately genus, now alive in Bri-
tain, which I have not had sufficient oppor-
tunities to determine.

FURCRÆA.

Ventenat in Usteri annal. der botan. 19. *p.* 54.

Cor. supera, 6-petala, patula. *Filum.* corolla
breviora, infernè obovata; supernè subulata.
Stylus 3-quetor, basi incrassatus. *Hort. kew.*
ed. 2. v. 2. p. 302.

F. (Gigantic) caulescens foliis integerrimis.—*fœtida*.
Furcræa gigantea, l. c.—Agave fœtida. Willd. 1.
sp. pl. 2. 194.—*Mill. dict. ed. 8. Agave* 3.

HABITAT in America calidiore.

S. 2.

FLORET Sept.—Jan.

CULT. 1690.

F. (Tuberous) caulescens foliis dentato spinosis. *tuberosa*.
Hort. kew. ed. 2. v. 2. p. 303.—*Mill. dict.* 2.
ed. 8. Agave 4.

HABITAT in America calidiore.

St. 2.

FLORET Aug. Sept.

CULT. 1739.

F. (Cuba) corollis hexapetalis, foliis ciliato-spi- *cubensis*.
nosis. Willd. *sp. pl.* 2. 193.—*Furcræa tu-* 3.
berosa. β. Hort. kew. ed. 2. v. 2. p. 303.

HABITAT in America calidiore. S. 7.
 FLORET....
 CULT. 1739.

rigida. F. (Vera-cruz) foliis lineari-lanceolatis supernè
 4. integerrimis, basi ipso serrato-spinosis.—*Agave rigida, foliis lineari-lanceolatis integerrimis, rigidis aculeo terminatis.* Mill. dict. ed. 8. *Agave* 8. nec *Agave lurida* β. Hort. kew. ed. 2. v. 2. p. 302: sed in horto Kewense pulchrè crescit.

HABITAT in America calidiore. S. 7.
 FLORET....
 CULT. ante 1768.

australis. F. (New Holland) foliis integerrimis longo-lanceolatis patentibus viridibus.
 5.

* HABITAT in Nova Hollandiâ. S. 7.
 FLORET....

INTROD. circa 1811.

OBS. This is a new species, allied very closely to *F. gigantea*, and is said to come from New Holland. I have seen but one plant; it is in Mr. Evans's collection, and has not yet acquired any stem.

ALOE.

Calyx petaloideus, rectus, basi staminifer. *Cap-sula* parum costata.—*Frutices caulescentes, floribus pendulis.* Duvall. plant. succulent. p. 5.

* *Caule senecto dichotomo fruticoso, vel suffruticoso.*

plicatilis. A. (Fan) foliis exacte distichis linguæformibus
 1. obtusis subintegris, paginis lævissimis mollissimis, caule fruticoso valde dichotomo basi strumoso.—*Aloe plicatilis, subcaulis, foliis*

linguæformibus lævibus distichis. Willd.
sp. pl. 2. 190.—*Hort. kew. ed.* 2. v. 2. p. 296.
 —*Bot. magaz.* 457.—*Plant. grass. cum ico-*
ne.—*Nobis in linn. soc. tr.* 8. 15.

HABITAT in Africa.

G. H. 2.

FLORET Jun. Jul.

CULT. 1723.

A. (Quiver Tree) caule dichotomo lævissimo *dichoto-*
fruticoso, foliis ensiformibus serrulatis glau- *ma.*
cis: apicibus erectis.—*Aloe dichotoma.* Willd. 2.
sp. pl. 2. 184.—*Paterson's journey*, 56. *cum*
quatuor tabulis.—*Nobis in linn. soc. tr.* 8. 21.

HABITAT C. B. S.

S. 2.

FLORET....

INTROD. 1780.

A. (Purple) caule senecto suffruticoso percrasso *purpu-*
dichotomo; foliis ensiformibus glaucis: api- *rascents.*
cibus recurvis, serraturis marginalibus albis. 3.
Nobis in linn. soc. tr. 8. 20.—*Aloe purpuras-*
cens. *Hort. kew. ed.* 2. v. 2. p. 292.—*Aloe*
perfoliata, purpurascens. *Hort. kew. ed.* 1.
p. 466.—*Aloe sinuata.* Willd. *sp. pl.* 2. 187.
 (exclusis synonymis.)

HABITAT C. B. S.

G. H. 2.

FLORET Jul.

CULT. ante 1780.

A. (Succotrine) caule senecto suffruticoso per- *succotri-*
crasso dichotomo; foliis ensiformibus vires- *na.*
centibus, supernè subincurvatis; serraturis 4.
marginalibus parvis albis numerosis. *Nobis*
in linn. soc. transact. 8. 19.—*Aloe succotrina.*
Hort. kew. ed. 2. v. 2. p. 292.—*Aloe perfo-*
liata succotrina: ed. 1. 1. 146. ; *et Bot. mag.*
472 — *Aloe perfoliata, vera.* Willd. *sp. pl.*
2. 186.—*Aloe vera.* Mill. *dict. ed.* 8. no. 15.

HABITAT C. B. S.

G. H. h.

FLORET Ap.

CULT. 1731.

** *Caule fruticoso, nec dichotomo.*

- spicata.* A. (Spike-flower'd) caulescens, foliis planis ensi-
5. formibus dentatis, floribus spicatis campanulatis horizontalibus. *Willd. sp. pl.* 2. 185.

HABITAT C. B. S.

S. h.

FLORET....

INTROD. circa 1795.

OBS. *Caulis* fruticosus. *Folia* maculis sive punctis nonnullis albis sparsis.

- africana.* A. (African) caule fruticoso simplici; foliis ensi-
6. formibus glaucis: inferioribus distantibus; apicibus reflexis; dentibus marginalibus igneis. *Nobis in linn. soc. transact.* 8. p. 21.—*Hort. kew. ed.* 2. v. 2. p. 196.

HABITAT C. B. S.

G. H. h.

FLORET Jul.

CULT. 1731.

β. foliis tuberculis subspinosis numerosis sparsis utrinque.

- arbores-* A. (Tree) caule fruticoso, foliis aggregatis ensi-
tens. formibus glaucescentibus, apicibus reflexis;
7. dentibus marginalibus virescentibus. *Nobis in linn. soc. tr.* 8. 20.—*Aloe arborescens.* *Hort. kew. ed.* 2. v. 2. p. 292.—*Bot. mag.* 1306.—*Plant. grass. cum icone.*—*Aloe perfoliata* β. *Willd. sp. pl.* 2. 185.

HABITAT C. B. S.

G. H. h.

FLORET Nov.—Mar.

CULT. 1731.

- ferox.* A. (Great Hedgehog) caule fruticoso simplici,
8. foliis ovato-ensiformibus rigidiusculis glaucis

deflexis : paginis, præcipue inferiore regulariter spinosissimis. *Nobis in linn. soc. tr. 8. 21.*

—*Hort. kew. ed. 2. v. 2. p. 293.*—*Aloe perfoliata ferox. Hort. kew. ed. 1. 1. 467.*—

Aloe perfoliata γ. *Willd. sp. pl. 2. 185.*

HABITAT C. B. S.

G. H. h.

FLORET

CULT. 1759.

β. foliis mitioribus supernè fere inermibus. A sequente differt foliis reflexis, nec incurvo-adscendentibus.

A. (Upright Hedgehog) caule fruticoso simplici; foliis oblongo-ensiformibus rigidis glaucescentibus incurvis, supra lævibus, infra irregulariter spinosis. *Nobis in linn. soc. tr. 8.*

9.

*

p. 22.—*Hort. kew. ed. 2. v. 2. p. 293.*—*Aloe perfoliata* ε. *Willd. sp. pl. 2. 186.*—

Aloe africana caulescens, foliis glaucis caulem amplexantibus: dorso spinoso. Comm. pr. t. 20.

HABITAT ad Caput Bonæ Spei.

G. H. h.

FLORET

CULT. 1731.

A. (Yellow-spin'd) caule fruticoso, propaginibus radicalibus; foliis oblongo-acuminatis glaucis, patulis; senioribus horizontalibus; lateribus dorsoque spinis interruptis latissimis fulvicantibus. *Nobis in linn. soc. tr. 8. 22.*

10.

*

flavispi-
na.

HABITAT C. B. S?

G. H. u.

FLORET Aug.

CULT. ante 1790.

A. (Mitre) caule fruticoso, propaginibus radicalibus; foliis imbricatis erectis ovato-acutis, spinis marginalibus rarioribus. *Nobis in linn. soc. tr. 8. 23.*—*Aloe mitreforma. Hort. kew. ed. 2. v. 2. p. 293.*—*Plant. grass. cum icone.*

11.

Bot. magaz. 1270.—*Aloe perfoliata*, mitre-formis. *Hort. kew. ed.* 1. p. 467.—*Aloe perfoliata* x. *Willd. sp. pl.* 1. 467.

HABITAT C. B. S.

G. H. 4.

FLORET Aug.

CULT. ante 1732.

nobilis.

12.

*

A. (Great Mitre) caule fruticoso-folioso simplici, absque propaginibus; foliis imbricatis erectis late ovato-acutis, infimis subdistantibus; spinis marginalibus numerosis.—*Aloe mitreformis spinosior*. *Nobis in linn. soc. tr.* 8. 23.

HABITAT C. B. S.

G. H. 4.

FLORET

CULT. ante 1800.

OBS. Præcedenti simillima, foliis numerosioribus sesquimajoribus, infimis distantioribus: spinis marginalibus frequentioribus.

distans.

13.

A. (Small Mitre) caule fruticoso, propaginibus radicalibus, foliis distantibus erecto-patulis ovato-acutis — *Aloe brevifolia*. *Nobis in linn. soc. tr.* 8. 23.—*Aloe perfoliata* x *brevifolia*. *Hort. kew. ed.* 1. 467.—*et edit.* 2. v. 2. p. 294. *excluso synonym.*—*Plant. grass. cum icone, quod penultimam representat.*

HABITAT ad Caput Bonæ Spei.

G. H. 4.

FLORET Aug.

CULT. ante 1732.

albispina.

14.

*

A. (White-spin'd) caule fruticoso, foliis ovato-acuminatis virescentibus: marginibus carinaque valde spinosis; spinis longis albissimis; senioribus apice flavicantibus; mortuis atris. *Nobis in linn. soc. tr.* 8. 22.

HABITAT C. B. S.

S. 4.

FLORET

CULT. ante 1796.

*** *Caule senecto suffruticoso, nec dichotomo; propaginibus plerumque radicalibus.*

- A. (Barbadoes) caule suffruticoso, propaginibus *barba-*
radicalibus, foliis ensiformibus sinuato-serra- *densis.*
 tis, corollis luteis. *Nobis in linn. soc. tr. 8. 15.*
p. 19.—Aloe barbadensis. Mill. dict. ed. 8.
no. 2.—Aloe perfoliata, barbadensis. Hort.
kew. ed. 1. p. 466.—Aloe vulgaris. Plant. grass.
cum icone.—Hort. kew. ed. 2. v. 2. p. 292.

OBS. Propaginum *folia* sæpe valde maculata, at
 senecta caulis principis, immaculata, vel ma-
 culis paucis basin versus infernè.

HABITAT in Ind. Occ.

S. h.

FLORET Aug.

CULT. 1596.

- A. (Red-spin'd glaucous) foliis oblongo-ensi- *glauc.*
formibus, valde glaucis; spinis marginalibus *16.*
rubris.—Aloe glauca. Nobis in linn. soc. tr. 8.
p. 18.—Hort. kew. ed. 2. v. 2. p. 295.—Mill.
dict. ed. 8. no. 16, exclusis observationibus.

α. *Major* foliis dealbatis: spinis junioribus pal-
 lidioribus adscendentibus. *Nobis l. c.*

β. *Minor*, foliis minoribus magis patulis cæru-
 lescenti-glaucis mollioribus, subtus apicem
 versus subtuberculatis: spinis junioribus vi-
 rescentibus respicientibus. *Nobis l. c.—Aloe*
rhodocantha. Bot. magaz. 1278, sed vix Plant.
grass. quæ tertia varietas.

HABITAT C. B. S.

G. H. h.

FLORET. Jan.—Dec.

CULT. 1731.

- A. (Red-spin'd striped) foliis viridibus lineatis *lineata.*
spinis rubris.—Nobis in linn. soc. tr. 8. p. 18. 17.
—Hort. kew. ed. 2. v. 2. p. 295.—Aloe per-
foliata η lineata. ed. prior.

HABITAT C. B. S.

S. h.

FLORET

CULT. ante 1789.

OBS. The lines depicted upon the *under* sides of the leaves of this and some other Aloes, appear more or less on dissection, in every species, and even in Gasteria, and Haworthia: but often more faint. These lines are merely the parallel nerves of the cutis of the leaves, which, when the epidermis is more than usually transparent, become visible through it. The same remarks will apply to the tessellating lines in the genus Opuntia. A perpendicular section shows the lines; but in a transverse one, they appear like minute and regularly distributed dottings.

- depressa*. A. (Depressed) foliis oblongo-ovatis acutis glaucis; subtus tuberculatis; marginibus carinaque apice cartilagineis albo dentatis. *Nobis in linn. soc. tr.* 10.—*Bot. magaz.* 1332, *excluso synonymo Milleri*.—*Hort. kew. ed.* 2. v. 2. p. 294.—*Aloe perfoliata* v *depressa*, *edit. prior*.—*Aloe serra. Plant. grass. cum icon.*—*Observationes tantum ad Alo. speciem* 16. *Mill. dict. ed.* 8. *absque caractere specifico, qui ad A. glaucam pertinet.*

HABITAT C. B. S.

G. H. h.

FLORET Aug.

CULT. 1781.

brevifolia.

19.

- A. (Short-leav'd) subacaulis foliis lanceolatis acutis glaucis; marginibus carinaque apice spinosis vix cartilagineis; subtus subtuberculatis. Aloe (brevioribus) foliis amplexicaulibus utraque spinosis, floribus spicatis. *Mill. dict. ed.* 8. *excluso synonymo Commelini, quod ad*

antecedentem rectius pertinet.—*Aloe brevifolia*. Plant. grass. cum icone.—Hort. kew. ed. 2. v. 2. p. 294.—*Aloe perfoliata* δ. Willd. sp. pl. 2. 185.—*Aloe prolifera*. Nobis in linn. tr. 7. 16.

HABITAT C. B. S.

G. H. h. S. 4.

FLORET Jul.

CULT. 1731.

Obs. In the Stove this acquires a short stem by age, but not in the Green-house.

*** *Caule senecto suffruticoso nec dichotomo, propaginibus radicalibus, foliis trifariis.*

A. (Partridge-breast) foliis trifariis pictis fasciis *variegata* albis, canaliculatis, angulis cartilagineis ob-
solete serrulatis. *Aloe variegata*. Willd. sp. 20.
pl. 2. 190.—Hort. kew. ed. 2. v. 2. p. 296.—
Bot. magaz. 513.—Plant. grass. cum icone.—
Aloe variegata, foliis trifariis pictis. Nobis in
linn. soc. tr. 7. 14.

HABITAT C. B. S.

G. H. h.

FLORET Jun. Jul.

CULT. 1720.

α. Stylo staminibusque corolla brevioribus, fasciis viridibus foliorum angustioribus. Nobis l. c.

β. Stylo staminibusque corolla longioribus, fasciis viridibus latioribus. Nobis l. c.

**** *MACULATÆ. Caule senecto suffruticoso nec dichotomo, propaginibus radicalibus, foliis multifariis lævibus plus minus maculatis.*

A. (Striated) foliis glaucis longitudinaliter sub-*striata*.
striatis, obsoletissime maculatis, marginibus 21.
albo cartilagineis integriusculis.—*Aloe striata* *

ta. Nobis in linn. soc. tr. 7. p. 18.—Hort. kew. ed. 2. v. 2. p. 295.

HABITAT C. B. S.

G. H. 4.

FLORET

INTROD. ante 1795.

serrulata.

22.

A. (Serrulated) foliis maculatis: marginibus, carinaque apice serrulatis. *Nobis in linn. soc. tr. 7. p. 18.—Hort. kew. ed. 2. v. 2. p. 295.—Bot. magaz. cum icone.—Aloe perfoliata* λ *serrulata. Hort. kew. ed. prior.*

HABITAT C. B. S.

S. 1.

FLORET Jul.

CULT. ante 1789.

OBS. *Bot. magaz.* conjectures this may be the variety of *variegata*, said to have been raised from seeds by Miller. But it is far nearer related to *obscura*, and extremely distinct from both. Indeed *variegata* still stands alone in the genus; having no ally.

obscura.

23.

A. (Great-Soap) foliis elliptico-lanceolatis læte viridibus glaucescentibus, maculis brevibus s. subrotundis parvis albicantibus sparsis; spinis ruberrimis; *floribus thyrsa-spicatis.—Aloe obscura. Mill. dict. ed. 8. no. 6.—Aloe Saponaria obscura. Nobis in linn. tr. 7. p. 17. excluso synon. Brad.—Aloe picta* α *major. Willd. sp. pl. 2. 186.—Hort. kew. ed. 2. v. 2. p. 293.—Bot. magaz. 1323.—Aloe perfoliata* \times *obscura. Hort. kew. ed. 1. p. 467.*

HABITAT ad Caput Bonæ Spei.

G. H. 4.

FLORET Jun. et Sept.

CULT. 1727.

latifolia.

24.

*

A. (Broad-leav'd Soap) foliis ovato-lanceolatis pallide viridibus maculis oblongis obsoletis albicantibus sparsis subfasciatisque; spinis ru-

fescentibus; floribus thyrso-capitatis.—*Aloe saponaria latifolia*. *Nobis in linn. soc. tr.* 7. p. 18.—*Bot. magaz.* 1346.

HABITAT C. B. S. G. H. h.

FLORET Jul. Aug.

INTROD. 1795.

OBS. *Bot. magaz.* calls this “an old inhabitant of our green-houses,” but erroneously, it having been introduced in 1795 and not before, and is yet very rare.—It has the most showy and largest head of flowers in the genus.

A. (Common Soap) foliis oblongo-lanceolatis saponaria sordide viridibus subglaucescentibus maculis majusculis oblongis albidis fasciatim transversis; spinis rufescentibus; floribus thyrsocapitatis.—*Aloe perfoliata saponaria*. *Hort. kew.* ed. 1. p. 467.—*Aloe saponaria minor*. *Nobis in linn. soc. tr.* 7. p. 17.—*Aloe disticha*. *Mill. dict. ed.* 8. no. 5.—*Aloe picta* β. *Willd. sp. pl.* 2. 187. 25.

HABITAT ad Caput Bonæ Spei. G. H. h.

FLORET Jul.

CULT. 1727.

OBS. Having raised a great quantity of this from seeds, every one of which exactly resembled the parent, I have no hesitation in giving it as a distinct species from the preceding.

***** ACAULES; foliis multifariis ciliato-spinosis, propaginibusque cæspitosis.

A. (Apple-green) subacaulis foliis oblongo-lanceolatis viridibus, parce maculatis, marginibus remote spinosis; spinis viridibus, floribus thyrsospicatis. *Nobis in linn. soc. tr.* 7. p. 17. *virens*. 26.
—*Bot. magaz.* 1355. *

HABITAT C. B. S? G. H. u.

FLORET Aug. Sept.

CULT. ante 1790.

OBS. If forced in the stove it acquires a short stem in a few years, but not in the greenhouse.

- suberecta*. A. (Lesser Hedgehog) foliis septuncialibus acuminatis glaucis supra planis lævibus; subtus apicem versus tuberculatis: laciniis corollæ acuminatis incurvis, apice subcrenulatis.—*Aloe suberecta*. Hort. kew. ed. 2. v. 2. p. 295.—*Aloe suberecta* β. Nobis in linn. soc. tr. 7. 16.—*Aloe perfoliata*, β *suberecta*. Hort. kew. ed. 1. v. 1. p. 467.

27.

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Jun.

INTROD. ante 1789.

OBS. Propaginis radicalibus infrequentissimis, et solum in senectissimis.

- acuminata*. A. (The middle Hedgehog) foliis subquadriuncialibus acuminatis glaucescentibus, supra planis lævibus, parce spinosis; subtus valde tuberculatis; laciniis corollæ obtusis.—*Aloe suberecta* α. Nobis in linn. tr. 7. p. 16.—*Aloe humilis*. Bot. magaz. 757. (nec aliorum) exclusis synonymis forte omnibus.

28.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Mai.

INTROD. circa 1795.

OBS. Priore duplo triplove minor, propaginis radicalibus frequentibus: laciniis corollæ magis expansis.

- tuberculata*. A. (Tubercled Hedgehog) foliis acuminatis; supra concaviusculis; undique numerosissime tuberculatis. Nobis in linn. soc. tr. 7. 16.

29.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Mai.

CULT. circa 1796.

A. (Dwarf Hedgehog) foliis subulatis supra *humilis*.
turgidis, inerme spinosis; infra tuberculatis; 30.
apicibus rectiusculis; bracteis internodio longioribus; stylo staminibus brevior. *Nobis in linn. tr. 7. p. 15.—Plant. grass. cum icone.—Hort. kew. ed. 2. v. 2. p. 294. exclus. synonym. Bot. magaz.—Aloe perfoliata & humilis, edit. prior. 1. 467.*

β. foliis aliquot latioribus.

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Jun.

CULT. 1731.

A. (Incurv'd Hedgehog) foliis subulatis tereti- *incurva*.
usculis undique valde tuberculatis: apicibus 31.
incurvatis, bracteis internodio brevioribus, *
stylo staminibus longiore.—*Aloe humilis, incurva. Nobis in linn. soc. tr. 7. 15.—Bot. magaz. 828.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Jun.

CULT. circa 1796.

GASTERIA.

Calyx petaloideus, curvus, obclavatus, basi stamifer. *Capsula* parum costata. *Fruticuli vix caulescentes, foliis Aloium; floribus pendulis. Duval. plant. succulent. in horto alenconio, p. 6.*

Obs. *Folia linguæformia.*

* *Propagininibus radicalibus nullis. Corollis brevioribus, ventricosioribus; foliis undique lævigatis, sæpius variegatis.*

G. (Broad, Marbled) caule senecto sesquipedali *obliqua*.
subdichotomo; foliis spiraliter multifariis pictis 1.

anguste-linguæformibus obtusissimis cum mucrone.—*Aloe obliqua*. *Nobis in linn. tr.* 7. 14.
—*Plant. grass. cum icone*.—*Aloe maculata obliqua*. *Hort. kew. ed.* 1. et 2.—*Aloe lingua*, *α*.
Bot. magaz. 979.

HABITAT C. B. S.

S. η .

FLORET Jul. Aug.

CULT. ante 1759.

pulchra. 2. G. (Narrow, Marbled) caule senecto sesquipedali subdichotomo; foliis spiraliter multifariis pictis ensiformibus acutis.—*Aloe pulchra*. *Nobis in linn. soc. tr.* 7. 16.—*Aloe maculata pulchra*. *Hort. kew. ed.* 1. et 2.—*Willd. sp. pl.* 2. p. 189.—*Aloe maculata*. *Bot. magaz.* 765.

HABITAT C. B. S.

S. η .

FLORET Jul. Aug.

CULT. ante 1759.

nigricans. 3. G. (Dark Tongue) caule senecto subpedali simplicissimo tecto, foliis exactè distichis imbricatis latè linguæformibus brevibus obtusis obsoletè maculatis, marginibus cartilagineis integris.—*Aloe nigricans*. *Nobis in linn. tr.* 7. 13.
—*Aloe lingua crassifolia*. *Hort. kew. ed.* 1. et 2.—*Willd. sp. pl.* 2. 190.—*Aloe lingua* β .
Bot. magaz. 838.

HABITAT C. B. S.

G. H. γ .

FLORET Jun. Jul.

CULT. apud Fonthill circa 1790.

OBS. It is mistakenly said in *Bot. magaz.* to be "common, and to be propagated by offsets, and of easy culture," for it is infrequent; owing to its never producing a single offset. The only mode of increase is by planting the long-lived leaves, which few consent to rob their plants of. The detached leaf in *Bot.*

magaz. on tab. 1332. taken from my old plant, appears serrulated; but the leaves themselves are entire.

** ACAULES, *propaginibus radicalibus cespitosis; corollis longioribus minus ventricosis; foliis linguæformibus, plus minus maculatis vel tuberculatis (prima excepta).*

G. (Smooth, Keel'd) *glabra: foliis multifariis linguæformi-acuminatis maculatis, supernè excavatis, subtùs altè carinatis; margine carinaque cartilagineis: propaginibus nullis.—Aloe carinata β subglabra. Nobis in linn. soc. tr. 7. 14.*

4.
*

HABITAT C. B. S.
FLORET Jun. Jul.
CULT. circa 1796.

G. H. 4.

G. (Rough, Keel'd) *foliis multifariis linguæformi-acuminatis albo-tuberculatis, supernè excavatis, subtùs altè carinatis; carina marginibusque tuberculato-scabris: propaginibus numerosissimis cespitosis.—Aloe carinata. Hort. kew. ed. 1. p. 469.—ed. 2. v. 2. p. 197.—Willd. sp. pl. 2. 189. (excluso synonymo Martini.)—Nobis in linn. soc. tr. 7. 13.—Bot. magaz. 1331. excepto folio sinistro, quod ad præcedentem pertinet, at margine magis serrulato.*

5.

HABITAT in Africa.
FLORET Jun. Jul.
CULT. 1731.

G. H. 4.

G. (Acute Tongue) *foliis distichis linguæformibus acutis maculatis, marginibus tuberculato-serrulatis.—Aloe lingua, latifolia. Nobis in linn. soc. tr. 7. 13.*

6.

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

INTROD.

β. (*multifaria*) foliis obliquè multifariis curvis linguæformibus acutis cultratis, marginibus tuberculato-serrulatis.—*Aloe lingua, multifaria*. *Nobis in linn. soc. tr. 7. 12.*

OBS. Forte propria species, foliis (in senectis) altero margine crassiore, spiraliter multifariis.

angulata.

7.

*

G. (Retuse Tongue) foliis distichis linguæformibus retusis cum mucrone, obsolete maculatis uno latere alterove curvis et carinatis; marginibus sæpe inflexis subtuberculato-serratis.—*Aloe lingua, angulata*. *Nobis in linn. soc. tr. 7. 13.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

Ex Lusitania accepi anno 1791.

OBS. *Folia* latiora quam in affinibus, minus lævia magisque retusa; marginibus minus asperis.

angustifolia.

8.

*

G. (Narrow Tongue) foliis obliquè distichis obtusis saturatè viridibus, maculis distinctis sparsis.—*Aloe lingua, angustifolia*. *Nobis in linn. soc. tr. 7. 13.*—*Aloe linguiformis verrucosa*. *Plant. grass. exclusis synonymis Mill. et Boerhav.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

CULT. 1731.

OBS. A semine non variat.

longifolia.

9.

*

G. (Long-leav'd Tongue) foliis distichis linguæformibus longis obtusis pallidè viridibus, marginibus tuberculato-scabris.—*Aloe lingua, longifolia*. *Nobis in linn. soc. tr. 7. 13.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

CULT. ante 1796.

OBS. Fol. exactè disticha, maculis distinctioribus paucioribus, quam in ultimis, et subinde fere in fascias dispositis.

G. (Short-leav'd Tongue) foliis exactè distichis *brevifolia*.
parabolico-linguæformibus brevibus obtusis, *lia*.
marginibus supernè lævibus. 10.

HABITAT C. B. S.

G. H. 4.

*

FLORET Jul. Aug.

CULT. ante 1809.—Communicavit Dom. Hill.

OBS. Facies G. nigricantis, at pallidè virens; corollis longioribus. Folia duplo breviora quam in præcedente; at simillima, exceptis apicibus glabris.

G. (Intermediate Tongue) foliis bifariis subensiformibus, læte viridibus; tuberculis numerosissimis albicantibus sparsis.—*Aloe intermedia*. *Nobis in linn. soc. tr.* 7. 12. 11.
*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

CULT. 1790.

G. (Pearl Tongue) foliis bifariis ensiformibus *verrucos*-
acutis perviridibus supra concavis: undique *sa*.
tuberculis margaritaceis numerosissimis sparsis.—*Aloe verrucosa*. *Nobis in linn. soc. tr.* 12.
7. 12 — *Aloe carinata*. *Plant. grass. cum*
icone.—*Bot. magaz.* 837.

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Nov.

CULT. 1731.

β. Foliis oblique submultifariis.—Communicavit Dom. Hooker, Sen.

HAWORTHIA.

Calyx petaloideus, rectus, superne revolutus in duo labia, basi staminifer. Capsula in costas valde prominens. *Fruticuli vix caulescentes, foliis Aloium, floribus erectis.* Duval. plant. succ. in hort. alenc. p. 7.

* CAULESCENTES, corollis bilabiatis; laciniis recurvis; foliis rigidissimis.

viscosa. H. (Smooth triangular) foliis trifariis ovatis
1. acutis perviridibus minime tuberculatis, caulibus strictis simplicibus.—*Aloe viscosa.* Nobis in linn. tr. 7. p. 6.—*Plant. grass. cum icone.* —*Bot. magaz.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Jul.

INTROD. 1732.

aspera. H. (Rough triangular) foliis trifariis orbiculato-ovatis acuminatis viridibus; supra subconcavis; subtus valde tuberculatis, caule stricto.
2. —*Aloe aspera.* Nobis in linn. tr. 7. p. 6.

HABITAT C. B. S.

S. h.

FLORET Mai.—Jul.

INTROD. 1795.

tortuosa. H. (Twisted triangular) foliis spiraliter trifariis patulis nigricantibus; externe minime tuberculatis, caule valde tortuoso.—*Aloe tortuosa.*
3. Nobis in Linn. soc. tr. v. 7. p. 7.—*Aloe rigida.* Bot. mag. 1337. sed a *Al. rigida* Plant. grass. toto cœlo discrepat.

HABITAT C. B. S?

G. H. h.

FLORET Mai.—Sept.

CULT. circa 1794.

Obs. How the Authors of *Bot. magaz.* should make this trifarious plant the same with our

multifarious *expansa*, we cannot guess; or that they should make Decandolles *rigida* also to be the same.

H. (Spreading-leav'd) subacaulis, foliis multifariis viridibus immaculatis junioribus patulis, senioribus horizontalibus rugosiusculis.—*Aloe expansa*. 4.
Nobis in linn. soc. tr. v. 7. p. 8.—*Aloe rigida*. *Plant. grass. cum icone*.

β. *Paulo major*.

HABITAT C. B. S.

S. 7.

FLORET Jul—Oct.

INTROD. circa 1795.

OBS. The *Aloe rigida* of *Plant. grass.* appears larger, less branched, and more purpurascens than either of the above varieties.

** ACAULES, corollis bilabiatis: latiniis recurvis; foliis rigidis multifariis, undique tuberculatim vel margine solum cartilagineo-albo, margaritaceis, scapis supernè effuso-paniculatis.

H. (White) foliis lævigatis mucronatis albicantibus; marginibus carinaque cartilagineis. 5.
—*Aloe albicans*. *Nobis in linn. soc. tr. 7. p. 8.*—*Bot. magaz. cum icone.*—*Aloe africana humilis, folio triangulari rigido albicante*. *Com. prælud. t. 30. absque flore.*—*Com. plant. rarior. t. 48. cum flore.*—*Com. hort. amst. pars alt. t. 7.*

HABITAT C. B. S.

S. 4.

FLORET Sept.

INTROD. 1795.

H. (Largest Pearl)—*Haworthia maxima*. *Du-* *maxima*. 6.
val. plant. succ. in hort. ulenc. p. 7.—*Aloe margaritifera, maxima*. *Nobis in linn. soc. tr. 7. p. 11.* *

HABITAT C. B. S.

G. H. 4.

FLORET Aug.

CULT. ante 1801.

OBS. In the present improved state of our knowledge of this plant, there is but little doubt that its three supposed varieties are distinct species; and they are here enumerated as such: but their complete characters, and confused synonyma, are left till another opportunity of examining their flowers occurs. They are now frequent in the Gardens.—Nov. 1811.

major.

H. (Larger Pearl)—*Haworthia major*. Duval. *plant. succ. in hort. alenc. p. 7.*—*Aloe margaritifera, major*. *Nobis in linn. soc. tr. 7. p. 11.*

7.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mai.—Sept.

CULT. 1739.

minor.

H. (Lesser Pearl)—*Haworthia minor*. Duval. *plant. succ. in hort. alenc. p. 7.*—*Aloe margaritifera, minor*. *Nobis in linn. soc. tr. 7. p. 11.*

8.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mai.—Aug.

INTROD.

minima.

H. (Least Pearl)—*Aloe margaritifera, minima*. *Nobis in linn. soc. tr. 7. p. 11.*

9.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mai.—Sept.

INTROD.

OBS. A semine non variat.

attenuata.

H. (The chalky Pearl) foliis erecto-recurvis subulato-attenuatis, subtus tuberculis cretaceo-margaritaceis majoribus; supra minutissimis; capsulis oblongis triquetris.—*Aloe attenuata*.

10.

*

Nobis in linn. soc. tr. 7. p. 11.—Aloe radula.
Kerr in bot. magaz. 1345. at omnino diversa
aradula Jacquin, quæ citata est.

HABITAT C. B. S.

G. H. 4.

FLORET Mai.—Aug.

CULT. ante 1790.

OBS. *Bot. magaz.* makes this plant the same as *radula* of Jacquin, and even changes its name to *radula*. Nevertheless the plants themselves are very distinct.

H. (Raspy Pearl) foliis erecto-recurvis subulato-*radula.*
 attenuatis; undique asperis, tuberculis minu- 11.
 tissimis crebris sparsis cretaceo-margaritaceis.

—*Aloe radula. Jacq. hort. schæn. cum icone.*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.

INTROD. 1805.

*** ACAULES, corollis bilabiatis: laciniis recur-
 vis, foliis multifariis mollioribus, (ultimis
 quatuor ciliatis) scapis gracilibus, ramis
 strictioribus.

H. (Boat-leav'd) foliis cymbiformibus obtusis *cymbi-*
 glaucis; supra valde concavis; apicibus ca-*formis.*
 rinatis obsolete reticulatis: propaginibus nu- 12.
 merosis.—*Aloe cymbiformis. Nobis in linn.* *
soc. tr. 7. p. 8.—Bot. magaz. cum icone.

HABITAT C. B. S.

G. H. 4.

FLORET Jun.—Aug.

INTROD. 1795.

OBS. This odd species considerably resembles the stemless Family of the Genus *Sempervivum*: its leaves being concave above, and pointed, with a keel beneath the points, remind us of the little hollow boats which schoolboys make.

- reticulata.** H. (Netted) foliis æquilateri-triquetris obtusiusculis glaucescentibus reticulatis supra subconcavis.—*Aloe reticulata*. *Nobis in linn. soc. tr.* 7. p. 9.—*Hort. kew. ed.* 2. v. 2. p. 300.—*Aloe arachnoides* γ *reticulata*. *Bot. magaz.* 1314.

HABITAT C. B. S.

G. H. 4.

FLORET Mai.—Aug.

CULT. ante 1794.

OBS. *Bot. magaz.* conceives that this is a variety of *pumila*, raised from seeds by Miller. But in all probability Miller never saw this plant. I first met with a single root of it about fourteen years ago in one of the Bark Stoves of the Earl of Tankerville at Walton, and never found it in any other place; except latterly, and derived from thence. Neither does *Bot. magaz.* make any *specific* difference between *reticulata*, *pumila*, *translucens*, and *arachnoides*.

- recurva.** H. (Recurve-leav'd) foliis subulatis crassis erecto-recurvis; supra concavis, subtus sub tuberculatis: marginibus obscure margaritaceo-tuberculatis.—*Aloe recurva*. *Nobis in linn. soc. tr.* 7. p. 10.—*Bot. magaz. cum icone*.

14.

*

HABITAT C. B. S.

S. 4.

FLORET Aug.

INTROD. 1795.

OBS. This is the only species of the Genus whose leaves bend back. They are erect at first, but with recurving points. It offsets but seldom, and is consequently rare: is also a shy plant, and likes water rather freely for a succulent one; and yet often perishes from having too much, unless planted on a little

hill in the centre of its pot: so that the waterings may never reach its base. If by accident it becomes too wet from drips, or otherwise, in the winter season of the year, shake it out of its pot, dry it for a few hours, or half a day or more, as may seem requisite; then replant it in dry earth. These remarks apply equally well to *all the lesser and more delicate* succulents; such as Stapelias, &c. Indeed, it is impossible to keep some of them long without these troublesome attentions. In winter they are best when watered in their saucers only—once or twice a fortnight; but with discretion, and a sparing hand.

H. (The Cushion) foliis quinquefariis apice retuso-deltaideis pallide viridibus; apice perviridibus, supra lineatis.—*Aloe retusa*. Willd. *sp. pl.* 2. 191. *Nobis in linn. soc. tr.* 7. 9.—*Plant. grass. p.* 45. *cum icone.*—*Bot. magaz.* 455. 15.

HABITAT C. B. S.
FLORET Mai.—Jul.
CULT. 1720.

G. H. 4.

H. (The rough Cushion) foliis ciliato-spinosis quinquefariis retuso-deltaideis cuspidatis, marginibus carinaque ciliato-spinosis; supra glabrusculis; subtus subtuberculatis obsolete reticulatis.—*Aloe mirabilis*. *Nobis in linn. soc. tr.* 7. 9. 16.

HABITAT C. B. S.
FLORET Mai.—Aug.
INTROD. 1795.

G. H. 4.

H. (Small Cobweb) foliis perviridibus, spinis marginalibus herbaceis tuberculisque numerosis.—*Aloe pumila*. *Nobis in linn. tr.* 7. 10. 17.

—*Aloe arachnoides pumila*. Willd. sp. pl. 2. 188.—Ait. kew. ed. 1. et 2.—Bot. magaz. 1361.—*Aloe herbacea*. Mill. dict. ed. 8.—*Aloe atrovirens*. Plant. grass. cum icone.

HABITAT ad C. B. S.

G. H. 4.

FLORET Mai.

INTROD. 1752.

pellu-
cens.

18.

*

H. (Transparent Cobweb) valde sobolifera, foliis suberectis lanceolato-teretiusculis, eleganter ciliatis; apice maculis oblongis pellucidis.—*Aloe pellucens*. Nobis in linn. soc. tr. 7. 10.—Hort. kew. ed. 2. v. 2. p. 300.—*Aloe arachnoides, pellucens*. Bot. mag. cum icone.—*Aloe pumilio*. Jacq. hort. schœnb. v. 4. tab. 34. (monente Bot. mag.)—at non vidi.

HABITAT C. B. S.

S. 4.

FLORET Aug.

INTROD. 1795.

OBS. This is a most delicate species, and is impatient of wet and cold. The tips of its leaves are transparent.

arach-
noides.

19.

H. (Cobweb) foliis expansis lanceolatis, supra planiusculis marginibus cartilagineis crassè ciliatis.—*Aloe arachnoides*. Mill. dict. ed. 8.—Nobis in linn. soc. tr. 7. 10.—Plant. grass. cum icone.—*Aloe arachnoides* α. Willd. sp. pl. 2. 188.—Hort. kew. 1. 467.; ed. 2. v. 2. p. 301.—Bot. magaz. cum icone.

HABITAT C. B. S.

S. 4.

FLORET Aug.

CULT. 1727.

OBS. *Aloe humilis africana, arachnoides*. Com. præhul. 71. t. 27. citata est optimaque dicta in Bot. magaz. 756: at potius ad præcedentem pertinet.

**** CAULESCENTES erectæ. Foliis rigidissimis integris, acuminato-cuspidatis. Corollis cylindricis sub-erectis: limbo sub-regulâri. An genus proprium?

H. (Great spiral) foliis præspiralibus quinque-fariis patentibus ovato-acuminatis glabris viridibus, apicem versus carina semilateriali; subtus supernè obsoletè sparsim maculatis; marginibus asperiusculis.—*Aloe spiralis*. Nobis in linn. tr. 7. 6. 20.
*

HABITAT C. B. S?

G. H. h.

FLORET Aug. Sept.

CULT. ante 1790.

OBS. The leaves are so spirally arranged, as to seem multifarious. Nevertheless they are strictly in five unvarying twisted rows.

H. (Small spiral) foliis præspiralibus quinque-fariis patentibus lanceolato-acuminatis glabris pallidè viridibus, apicem versus subbicarinulatis: subtus supernè, carinulisque obsoletè maculatis; marginibus asperiusculis. spirella.
21.
*

HABITAT C. B. S.

G. H. h.

FLORET Aug.

CULT. ante 1808.

OBS. Præcedenti simillima, at triplo minor; foliis angustioribus, apice bicarinulatis, carinulis ordine macularum notatis.

H. (Pentangular) foliis quinquefariis glabris viridibus; subtus obsoletè maculatis.—*Aloe na. pentagona*. Nobis in linn. soc. tr. 7. p. 7.— 22.
Hort. kew. ed. 2. v. 2. p. 298.—Bot. magaz. 1338.—Aloe spiralis β pentagona. Hort. kew. ed. 1. 471.—Willd. sp. pl. 2. 191.

HABITAT in Africa. *Hort. k. l. c.* G. H. h.

FLORET Jun. Jul.

CULT. 1731.

OBS. For twenty-five years this plant with me has never become spiral, but constantly produced its imbricated leaves in five rows. Nevertheless I have seen one plant, which seems the same, (and larger than *spirella*) that did produce them somewhat spirally; and have now a small offset from it before me. From *imbricata*, this and the two preceding species will be considered abundantly distinct; except indeed by such Botanists as still prefer to reduce sections into species, instead of grouping species into sections.

imbricata. H. (Rough-flower'd) erecta, teres: corollis rugosis: foliis multifariis erectiusculis lævigatis immaculatis.—*Aloe imbricata*. Nobis in linn. soc. tr. 7. p. 7.—*aloe spiralis* & *imbricata*. Hort. kew. ed. 1. 471.—Willd. sp. pl. 2. 191.—*Aloe spiralis*. Hort. kew. ed. 2. v. 2. p. 298.—Bot. magaz.—Plant. grass. cum icone.—*Aloe africana erecta rotunda, folio acuminato*. Com. prælud. t. 32.

23.

HABITAT in Africa. Hort. k. l. c. G. H. 7.
FLORET Jun. Jul.

CULT. 1731.

OBS. At the time my Aloes were published in the Transactions of the Linnæan Society of London, I had not beheld the rare flowers of this species; which would have well deserved the name of *rugiflora*, being the only rough-flowered one of the whole Order (save *Aletris aurea*, and *A. farinosa*). *Spiralis* is a name now hardly tenable for a plant which has nothing spiral about it; and which moreover Linnæus seems to have so named, from having confounded it with at least one more,

which might be spiral. The first edition of *Hortus kewensis* divided these, by the subspecific names of *imbricata* and *spiralis*: and as it is the practice of Botanists, when named varieties are elevated to the rank of species, to adopt their subspecific names for specific ones; I followed this rule in *Linn. soc. tr.* 7. p. 7. by so calling them: and the more readily, because I had also another plant (the first and largest of this section) for the name *spiralis*, with leaves most manifestly disposed in five regular extremely spiral rows; and which may have been the very one Linnæus had in view when he formed the name *spiralis*; or if not it, he may have had *spirella*; or perhaps both: for his knowledge of these plants, at that time, (unless he had seen their smooth flowers,) would hardly have prompted him to make even varieties of them. Be this as it may, I called the large spiral species *spiralis*; and have here continued it.

H. (Many small-leav'd) foliis multifariis brevifoliolosa.
vissimis confertissimis orbiculato-ovatis lævigatis horizontalibus læte viridibus.—*Aloe foliolosa*. 24.
Nobis in linn. tr. 7. 7.—*Hort. kew.*
ed. 2. v. 2. p. 298.—*Bot. magaz.* 1352.

HABITAT C. B. S. G. H. h.

FLORET Jun.—Aug.

INTROD. 1795.

OBS. This is the smallest and thinnest leaved species in the Genus. The leaves are also the most numerous, most spreading, and most crowded.

Classis X.

DECANDRIA

MONOGYNIA.

ZYGOPHYLLUM. (Bean Caper.)

Gen. pl. 730.

Calyx 5-phyllus. *Petala* 5. *Nectarium* 10-phyllum, germen tegens, staminiferum. *Cap-sula* 5-locularis.

cordifo- Z. (Heart-leav'd) foliis simplicibus oppositis
lium. sessilibus subrotundis. *Willd. sp. pl.* 2.

1. *p.* 560.—*Hort. kew. ed.* 2. v. 3. *p.* 39.

HABITAT C. B. S.

G. H. h.

FLORET Oct.

INTROD. 1774.

Fabago. Z. (Common) foliis conjugatis petiolatis : fo-
2. liolis obovatis, pedunculis erectis, calyce gla-
bro, petalis indivisis, caule herbaceo. *Willd.*
sp. pl. 2. *p.* 560.—*Hort. kew. ed.* 2. v. 3.
p. 40.

HABITAT in Syria.

H. 4.

FLORET Jul.—Sept.

CULT. 1596.

fœtidum. Z. (Fœtid) foliis conjugatis petiolatis : foliolis
3. obovatis, flore nutante, calyce pubescente,
petalis incis, caule fruticoso. *Willd. sp. pl.*
2. *p.* 561.—*Zygophyllum fœtidum.* *Schrad.*
sert. hannov. 2. *p.* 17. t. 9.—*Hort. kew. ed.* 2.

v. 3. p. 40.—*Zygophyllum insuave*. Bot. magaz. 372.

HABITAT C. B. S.

G. H. h.

FLORET per totam æstatem.

INTROD. 1790.

OBS. The disagreeable and rather rue-like scent of this plant is quite perceptible when standing near it.

Z. (Spotted-flower'd) foliis conjugatis petiolatis: foliolis linearilanceolatis. *Willd. sp. pl. tum.*

2. p. 561.—*Hort. kew. ed. 2. v. 3. p. 40.* 4.

HABITAT C. B. S.

G. H. h.

FLORET Oct. Nov.

INTROD. 1782.

Z. (White) foliis conjugatis petiolatis: foliolis *album*.
clavatis carnosis arachnoideo-incanis. *Willd.* 5.
sp. pl. 2. p. 561.

HABITAT in Ægypto, inque Canariis. S. h.

FLORET

INTROD. 1779.

Z. (Four-leav'd) foliis conjugatis subpetiolatis, *Morgsa-*
foliolis obovatis, caule fruticoso. *Mill. dict. na.*
no. 3.—Willd. sp. pl. 2. p. 52.—Hort. kew. 6.
ed. 2. v. 3. p. 40.—Fabago triphylla et tetra-
traphylla, flore tetrapetalo, fructu membra-
naceo quadrangulari. Burm. afr. 7. t. 3.—
Fabago capensis frutescens major. Dill. elth.
142. t. 116. f. 141.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug.

CULT. 1732.

Z. (Sessile-leav'd) foliis conjugatis sessilibus: *sessilifo-*
foliolis lanceolato-ovalibus margine scabris, *lium*.
caule fruticoso. *Willd. sp. pl. 2. p. 563.—* 7.

Decandria Monog. Zygomphyllum.

Hort. kew. ed. 2. v. 3. p. 41.—Fabago frutescens capensis minor. Dill. elth. 142. t. 116. f. 142.

HABITAT C. B. S.,

G. H. ♀.

FLORET Jul. Aug.

CULT. 1713.

FAGONIA. *Gen. pl. 731.*

Cal. 5-phyllus. Petala 5, cordata. Caps. 3-locularis, 10-valvis: loculis 1-spermis.

cretica. F. (Cretan) spinosa, foliolis lanceolatis planis
1. lævibus. *Willd. sp. pl. 2. p. 565.—Hort. kew. ed. 2. v. 3. p. 41.—Bot. magaz. 241.*

HABITAT in Candia.

G. H. ☉.

FLORET Jun.—Aug.

CULT. 1739.

arabica. F. (Arabian) spinosa, foliolis linearibus con-
2. vexis. *Willd. sp. pl. 2. p. 565.—Hort. kew. ed. 2. v. 3. p. 41.*

HABITAT in Arabia.

G. H. ♂.

FLORET Jun. Jul.

CULT. 1759.

DIGYNIA.

TRIANTHEMA. *Gen. pl. 762.*

Calyx sub apice mucronatus. Cor. ☉. Stam. 5. 8. 10. Germen retusum. Caps. circumscissa.

monogyna. T. (Purslane-leav'd) floribus pentandris, mo-
nogynis. *Willd. sp. pl. 2. p. 635.—Hort. kew. ed. 2. v. 3. p. 64.*
1.

HABITAT in Jamaica.

S. ☉.

FLORET Jul. Aug.

CULT. 1710.

TRIGYNIA.

ARENARIA. (Sandwort.) *Gen. pl.* 774.

Calyx 5-phyllus, patens. *Petala* 5, integra.

Caps. 1-locularis, polysperma.

A. (Peplus-like) foliis ovatis acutis carnosiss. *Peplo-*
Willd. sp. pl. 2. p. 716.—*Hort. kew. ed.* 2. des.
v. 3. p. 98.—*Eng. bot.* 189. 1.

HABITAT in Angliæ maritimis arenosis.—Yar-
mouth Denes, &c. H. 4.

FLORET Mai.—Jul.

STIPULARIA.

Cal. 5-phyllus. *Petala* 5, integra. *Caps.* 1-
locularis, polysperma. *Semina* compressa,
angulata, vel marginata. *Stipulæ* extrafolia-
cæ, magnæ vaginantes scariosæ.

A. (Downy) foliis linearibus carnosiss, stipulis *media.*
membranaceis, caulibus pubescentibus.—*Aren-* 1.
naria media. Willd. sp. pl. 2. p. 722.

HABITAT in Gallia. H. ☉.

FLORET Jul.

CULT. ante 1795.

Simillima *A. rubræ maritimæ*, sed minus ra-
mosa, caulibus majis adscendentibus, pubes-
centibus. *Folia* carnosissima, linearia, acutiuscula,
supra depressiuscula, subtus convexa, pubes-
centia. *Flores* albi, petalis calyce vix majori-
bus. *Semina* margine membranaceo cincta.

Dubiè propono plantam, quam Botanici Germa-
nici, ob synonyma falsa, cum *Spergula pen-*
tandra conjunxere, et quam Hudsonus in
Flora anglica, p. 193. pro varietate *Arenariæ*

rubræ declarat ; videtur tamen a binis nominatis plantis diversa. *Willd. l. c.*

OBS. Planta distincta. Olim vidi crescentem regio horto Kewense. Tota minutè tomentosa, (floribus exceptis) foliis teretibus carnosus.

pubescens. S. (Pubescent) caulibus foliisque linearibusque mucronulatis (internodium longitudine) pubescentibus: stipulis scariosis vaginantibus.—
2. *Arenaria marina* β. *Smith's fl. br. 2. p. 479.*
* HABITAT in Anglia, infrequens. H. ☉.
FLORET Jul.

marina. S. (Marine) foliis semicylindricis carnosis muticis, stipulis scariosis vaginantibus, seminibus compressis marginatis glabris.—*Arenaria marina.* *Smith's fl. brit. 2. p. 480.—Eng. bot. 958.—Arenaria rubra* β. *Willd. sp. pl. 2. p. 722.*
3. HABITAT in Angliæ maritimis limosis. H. ♀.
FLORET Jun. Jul.

rubra. S. (Purple) foliis linearibus mucronulatis, stipulis scariosis vaginantibus, seminibus compressis angulatis scabriusculis.—*Arenaria rubra.* *Smith. fl. brit. 2. p. 479.—Eng. bot. 852.—Arenaria rubra* α. *Willd. sp. pl. 2. p. 721.*
4. HABITAT in Angliæ siccis campis. H. ♀.
FLORET Jun.—Aug.

capensis. S? (Cape) ramis ramulisque gracilibus erectis subpedalibus, stipulis parvis, foliis erectis linearibus carnosus.
5. * HABITAT C. B. S. G. H. ♀.
INTROD. 1809 a Dom. Cuff.
FLORES non vidi.

Obs. I have lately seen this plant alive in Mr. Cuff's collection at Teddington, and have made the above minute of it from memory. He raised it from Cape seeds.

PENTAGYNIA.

COTYLEDON. (Navel Wort.) *Gen. pl.* 788.

Cal. 5-fidus. *Cor.* 1-petala, 5-fida. *Squamæ* nectariferæ 5, ad basin Germinis. *Caps.* 5.

* FRUTESCENTES.

C. (Round-leav'd) foliis orbiculato-spathulatis orbiculato-farinoso-albis, obtusis cum acumine lævibus, *ta.* floribus paniculatis, caudice erecto ramoso.— 1.
Cotyledon orbiculata δ . *Hort. kew. ed. 2. v. 3. p. 108.*—*Cotyledon orbiculata* γ . *Willd. sp. pl. 2. p. 754.*

HABITAT C. B. S.

G. H. η .

FLORET Jul.—Oct.

CULT. ante 1790.

C. (Ovate-leav'd) foliis ovato-spathulatis ob-ovatis farinoso-albicantibus, cum acumine, lævibus rubroque marginatis: floribus paniculatis, caudice erecto ramoso.—*Cotyledon orbiculata* α . *Hort. kew. ed. 2. v. 3. p. 108.*—*Willd. sp. pl. 2. p. 752.*—*Plant. grass. cum icone.*—*Bot. magaz. 321.* 2.

HABITAT C. B. S.

G. H. η .

FLORET Jul.—Oct.

CULT. ante 1795.

Obs. Miller in the eighth edition of his Dictionary describes a Cape Cotyledon by the

name of ovata, which I suppose may be the same as this, notwithstanding he says the leaves of his plant are of a "lively green colour."

- oblonga*. C. (Oblong-leav'd) foliis oblongo-spathulatis, obtusis (farinoso-albis?) cum acumine lævibus; floribus paniculatis, caudice erecto ramoso.—*Cotyledon orbiculata* β. Hort. kew. ed. 2. v. 3. p. 108.—Willd. sp. pl. 2. 754.

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Sept.

INTROD. 1690. Hort. kew. l. c.

- ramosissima*. C. (Many-branch'd) foliis ovato-spathulatis, obtusis cum acumine, lævibus farinoso-albis; floribus paniculatis; caudice ramosissimo divaricato.—*Cotyledon ramosissima*. Mill. dict. ed. 8.—*Cotyledon paniculata*. Linn. supp. 242?—et Willd. sp. pl. 2. 754?—*Cotyledon orbiculata* γ. Hort. kew. ed. 2. v. 3. p. 108.

HABITAT C. B. S.

G. H. h.

FLORET

CULT. ante 1768. Mill. dict. l. c.

OBS. Like Miller, I have grown this plant near twenty years without ever having seen its flowers.

- fascicularis*. C. (Cluster'd) foliis cuneiformibus fasciculatis, caudice incrassato, ramis carnosis subconicis. Willd. sp. pl. 2. 109.—Hort. kew. ed. 1. v. 2. p. 106.—et ed. 2. v. 3. p. 109.—*Cotyledon frutescens*, folio oblongo viridi, floribus ramosis pendulis reflexis. Burm. afr. 41. t. 18.

HABITAT C. B. S.

S. h.

FLORET Jul.—Sept.

CULT. 1759.

C. (Hemisphæric) foliis semiorbiculatis furfure hemipunctatis, supra planis, floribus paucis parvis sphaeris sessilibus.—*Cotyledon hemisphærica*, Hort. ca. kew. ed. 2. v. 3. p. 109.—*Willd. sp. pl.* 2. 6. p. 756.—*Cotyledon capensis*, folio semiglobato. Dill. elth. 112. t. 95. f. 111.—*Plant. grass. cum icone.*

HABITAT C. B. S.

G. H. h.

FLORET Jul. (rariss.)

CULT. 1731.

C. (Narrow-leav'd) foliis spathulatis obtusis spuria. cum acumine nudis. Hort. kew. ed. 1. v. 2. 7. p. 106.—*Willd. sp. pl.* 2. p. 754.—*Hort. kew. ed.* 2. v. 3. p. 109.—*Cotyledon africana frutescens*, folio longo et angusto, flore flavescente. Comm. rar. 23. t. 23.

HABITAT C. B. S.

S, h.

FLORET Jul. Aug.

CULT. 1731.

**** ACAULES, radicibus fibrosis.**

C. (Tufted) foliis glaucis angustè linguæformibus, apice obcuneatis submucronatis, floribus sa. cymosis, caule folioso.—*Cotyledon cespitosa*. 8. *Haworth. misc. nat.* p. 180.—*Cotyledon linguæformis*. Hort. kew. ed. 2. v. 3. p. 109.

HABITAT in California. Hort. k. l. c.

FLORET Jul. Aug.

G. H. 4.

INTROD. 1796.

OBS. *Herba* succulenta cespitosa perennis nec frutescens. *Radix* fibrosa. *Folia* multifaria more Sempervivi, perglaucacarnosa supra concava, subtus convexa; caulina (scapi erecti pedalis) pernumerosa cordatim-amplexicaulia, superiora sensim minora, suprema bracteacea. *Flores* mediocres. *Pedunculi* breves erecti

vel aliquantulum patuli. *Calyx* 5-partitus campanulatus, foliolis bracteiformibus. *Corolla* 5-petaloidea; *petala* lutea formâ foliorum, sed medium versus paulo latiora, erecta, apice patula. *Stamina* 10, albida compressa, sensim attenuata, petalis breviora. *Antheræ* lutescentes, polline luteo. *Styli* 5 subulati obclavati antherarum altitudine.

- serrata*. C. (Notch-leav'd) foliis ovalibus crenatis caule
9. spicato. *Willd. sp. pl. 2. p. 757.*—*Hort. kew. ed. 2. v. 3. p. 109.*—*Cotyledon crenata, folio oblongo fimbriato. Dill. elth. 113. t. 95. f. 112.*

HABITAT in Candia, Siberia.

H. 4.

FLORET Jun. Jul.

CULT. 1732.

- hispanica*. C. (Spanish) foliis oblongis subteretibus, flori-
10. bus fasciculatis. *Willd. sp. pl. 2. p. 759.*—*Hort. kew. ed. 2. v. 3. p. 110.*—*Plant. grass. cum icone.*

HABITAT in Africa, Oriente, Hispania. H. ♂.

FLORET Jun. Jul.

INTROD. 1796.

** TUBEROSÆ, *acaules radicibus tuberosis. An hujus generis?*

- Umbilicus*. C. (Common Navelwort) foliis peltatis crenatis,
11. caule subsimplici, floribus pendulis, bracteis integris. *Willd. sp. pl. 2. p. 757.*—*Hort. kew. ed. 2. v. 3. p. 110.*—*Eng. bot. 325.*—*Cotyledon umbilicus* ♀ β *tuberosa. Linn. sp. pl. 615.*

HABITAT in Angliæ muris, rupibus. H. 4.

FLORET Jun. Jul.

- C. (Yellow) foliis peltatis crenatis, caule sub- *lutea*.
 simplici, floribus erectis, bracteis dentatis. 12.
Willd. sp. pl. 2. 757.—*Hort. kew. ed.* 2.
v. 3. *p.* 110.—*Eng. bot.* 1522.—Cotyledon
 umbilicus φ α repens. *Linn. sp. pl.* 615.
 HABITAT in Anglia, rariss. H. 4.
 FLORET Jun. Jul.

KALENCHOE.

- Calyx* 4-phyllus. *Corolla* 1-petala, ventricosa,
 limbo patenti-revoluta, 4-partita. *Squamæ*
 nectariferæ 4, ad basin germinis. *Capsulæ* 4.
- K. (Yellow-flower'd) foliis oppositis carnis *crenata*.
 oblongo-lanceolatis duplicato-crenatis viridi- 1.
 bus; floribus cymoso-paniculatis.—*Kalenchoë*
crenata. Bot. magaz. cum icone.—*Veria cre-*
nata. Bot. rep. 1. *t.* 21.—*Cotyledon crenata.*
Hort. kew. ed. 2. *v.* 3. *p.* 110.—*Willd. sp.*
pl. 2. *p.* 471.
 HABITAT in Sierra Leona. St. h.
 FLORET Jul.—Sept.
 CULT. 1793.
- K. (White-flower'd) foliis lato-lanceolatis, op- *acutiflo-*
 positis, crenatis, crassis: floribus paniculatis, *ra.*
 terminalibus: corollis albis: laciniis 2.
 oris acutiusculis. *Bot. repos.* 560.—*Veria*
acutiflora.
 HABITAT in India orientali? S. h.
 FLORET hyeme.
 INTROD. 1806.
- K. (Cut-leav'd) foliis laciniatis.—*Cotyledon la-* *lacini-*
cinata. Willd. sp. pl. 2. *p.* 758.—*Hort. kew. ta.*
ed. 2. *v.* 3. *p.* 110.—*Kalenchoë laciniata.* 3.

Plant. grass. cum icone.—*Cotyledon afra laciniata*, &c. *Boerh. ind.* 1. p. 288. *t.* 288.

HABITAT in India, Ægypto.

S. 7.

FLORET Jul. Aug. rarissimè.

CULT. 1731.

BRYOPHYLLUM.

Calyx longus vaginæformis. *Corolla* 1-petala, tubo rhombeo ore contracto; limbo 4-fido. *Stamina* 8, ad os tubi duplici serie inserta. *Pericarpia* 4, basi squamas tot melliferas exerentia.—*Parad. lond.* 3.

calycinum.

1.

B. (Large-cup'd) calyce corolla multo breviorè, parum 4-angulo.—*Par. lond. l. c.*—*Cotyledon pinnata*. *Lamarck. encycl.* 2. p. 141.—*Hort. kew. ed.* 2. v. 3. p. 111.

HABITAT in Mauritio et Moluccis.

St. 7.

FLORET Apr.—Jul.

INTROD. circa 1800.

OBS. This singular plant has the singular faculty of throwing out roots and young plants from the crenatures of its leaves, when they break off the plant, or are placed in or upon the ground; by which means a speedy increase is easily obtained. It forms a very distinct genus.

RHODIOLA.

Dioica Octandra. *Mas. Cal.* 4-partitus. *Cor.* 4-petala. *FEM. Nect.* 4. *Pist.* 4. *Caps.* 4. *Pers. syn.* 2. 625.

rosea.

1.

R. (Rose-root) *Sedum Rhodiola*. *Plant. grass.* *t.* 143.

HABITAT in Britannia.

H. 4.

FLORET Jun.

ANACAMPSEROS. (Orpine.)

Raj. et Tournef.

Cal. 5-fidus. *Cor.* 5-petala. *Squamæ* nectariferæ 5, ad basin germinis. *Caps.* 5, ventricosæ, erectæ, s. stellatæ, extus inflato-gibbæ, apicibus recurvis. *Folia* plana carnosà sessilia, vel plus minus petiolata: radices perennes parum tuberosæ, vel incrassatæ. Generi priori fortè nimis affinis.

* TELEPHIA, *radicibus subtuberosis.*

- A. (Great purple) foliis amplexicaulibus cordatis conjugatis ovatis obtusis inæqualiter altè serratis 3-4-uncialibus.—*Sedum Telephium* *maxima*. 1.
maximum. Linn. sp. pl. 1. 616.—*Sedum Telephium* β *maximum*. Hort. kew. ed. 2. v. 3. p. 111. *

HABITAT in Hispania.

H. 4.

FLORET Jul. Aug.

CULT. ante 1794.

- A. (Great white) foliis oppositis amplexicaulibus cordato-oblongis obtusis obtuseque serratis 2 3-uncialibus albicantibus.—*Sedum Telephium* δ . Linn. sp. pl. 1. 616. 2.
 *

HABITAT in Europa.

H. 4.

FLORET Jul. Aug.

CULT. ante 1794.

- A. (Three-leav'd purple) foliis ternis verticillatis oblongis serratis; corymbis terminalibus.—*triphylla*.
Sedum Telephium β *purpureum*. Linn. sp. pl. 1. 616.—*Hort. kew. ed. 2. v. 3. p. 111.* 3.
 —*Sedum verticillatum*. Donn. hort. cantab. ed. 6. 125. *

HABITAT in Lusitania (vix in Anglia). H. 4.

FLORET Jul. Aug. at rarissimè.

INTROD. ante 1794.

- vulgaris.* A. (Small common) foliis alternis lanceolato-oblongis serratis.—*Sedum Telephium* γ. Linn. sp. pl. 616.—*Sedum Telephium* α. album. Hort. kew. ed. 2. v. 3. p. 111.—*Telephium vulgare*. Bauh. pin. 287.

β foliis eleganter variegatis.

HABITAT in Angliæ ripis siccis.

H. 4.

FLORET Jul. Aug.

* *Orpineæ.*

- semper-virens.* 5. A. (Evergreen) foliis cuneiformibus basi attenuatis subsessilibus, caulibus decumbentibus, floribus corymbosis.—*Sedum anacampseros*. Willd. sp. pl. 2. p. 761.—Hort. kew. ed. 2. v. 3. p. 111.—Bot. magaz. 118.—Plant. grass. 33.

HABITAT in Gallia Australi.

H. 4. S. 2.

FLORET Jul. Aug.

INTROD. ante 1596.

OBS. *Folia* superiora solum sempervirentia; cætera hyeme decidua.

- Telephioides.* 6. A. (Telephian) foliis planis ovatis, utrinque subacutis dentatis, floribus corymboso-fasciculatis.—*Sedum Telephioides*. Mich. fl. americ. 1. p. 277.—Pers. synopsis. 1. 511.

HABITAT in Carolinæ montibus altiss. Dom. Frazer, qui in Angliam introduxit, communicavit, anno 1810.

H. 4.

FLORET Aug.

- Aizoon.* 7. A. (Yellow Orpine) foliis lanceolatis serratis planis, caule erecto, cyma sessili terminali. Willd. sp. pl. 2. p. 761.—*Sedum, Aizoon*. Plant. grass. 101.

HABITAT in Siberia.

H. 4.

FLORET Jul.—Sept.

CULT. 1757.

A. (Poplar-leav'd) foliis planis cordatis dentatis *Populi-*
petiolatis, corymbis terminalibus.—*Sedum po-*
pulifolium. Willd. *sp. pl.* 2. p. 762.—*Bot.* 8.
magaz. 211.—*Plant. grass.* 110.

HABITAT in Siberia.

H. 2.

FLORET Jul. Aug.

INTROD. 1780.

A. (Straddling) foliis cuneiformi-rhombeis emar- *divarica-*
ginatis petiolatis, caulibus ramosis, paniculis *ta.*
terminalibus divaricatis.—*Sedum divaricatum.* 9.
Hort. kew. ed. 1. v. 2. p. 108.—*et ed.* 2. v. 3. †
p. 112.—*Willd. sp. pl.* 2. p. 761.—*Pers.*
synops. 1. 511.—*Sedum Aizoides.* *Plant.*
grass. ic.?

HABITAT in Madeira.

G. H. 2.

FLORET Jun. Jul.

INTROD. 1777.

A. (Fringed) foliis cuneato-obovatis dentatis mi- *ciliaris.*
nute ciliatis; cyma sessili terminali. 10.

HABITAT in monte Caucaso.

H. 4.

*

FLORET Aug.

INTROD. ante 1810.

OBS. In Gardens this is sometimes called *Sedum*
spurium: and in Kew Garden I have seen it
 ticketed *S. dentatum*: neither of which I be-
 lieve are published names. But there is a
 work sometimes cited, on Caucasian plants,
 in which it probably may occur. The *Sedum*
denticulatum of Donn's Catalogue I have no
 knowledge of. It is possibly the same.

A. (Hybrid) foliis cuneiformibus concavis sub- *hybrida.*
dentatis aggregatis, ramis repentibus, cyma 11.

terminali.—*Sedum hybridum*. Willd. sp. pl. 2. p. 761.—*Hort. kew. ed. 2. v. 3. p. 112.*

HABITAT in Siberia.

H. ♀.

FLORET Mai. Jun.

CULT. 1766.

- ternata*. A. (Dwarf three-leav'd) foliis verticillatis obo-
12. vatis integerrimis glabris, cyma subtristachya.
—*Sedum ternatum*. *Hort. kew. ed. 2. v. 3.*
p. 112.—*Mich. americ. 1. p. 277.*—*Sedum*
deficiens. *Donn. hort. cant. ed. 6. 126.*

HABITAT in America Boreali.

H. ♀.

FLORET Jul. Aug.

INTROD. 1789.

OBS. This species was known in Gardens till lately by the name of *Sedum octagon*.

- stellata*. A. (Starry) foliis planiusculis angulatis, floribus
13. lateralibus sessilibus solitariis.—*Sedum stella-*
tum. *Willd. sp. pl. 2. p. 762.*—*Hort. kew.*
ed. 2. v. 3. p. 113.

HABITAT in Gallia, Italia,

H. ☉.

FLORET Jun. Jul.

CULT. 1640.

OBS. An hujus generis?

- Cepæa*. A. (Purslane-leav'd) foliis planis lanceolatis,
14. caule ramoso, floribus paniculatis, petalis acu-
tis aristatis. *Willd. sp. pl. 2. p. 763.*—*Se-*
dum Cepæa. *Hort. kew. ed. 2. v. 3. p. 113.*
—*Sedum spatulatum*. *Kit. hung. t. 104.*

HABITAT in Gallia, Helvetia.

H. ☉.

FLORET Jul. Aug.

CULT. 1610.

SEDUM. (Stone-crop.) : *Gen. pl.* 789.

Cal. 5-fidus. *Cor.* 5-petala. *Squamæ* nectariferæ, ad basin germinis. *Caps.* 5. apicibus longis erectis. *Folia* teretia subulata succulenta basi præsingulariter soluta.

OBS. The plants of this and the last genus grow better upon old walls and rock-work than in the ground.

* ACUTIFOLIA.

S. (Great Stone-crop) floribus suboctopetalis, *altissimifoliis* sparsis; inferioribus teretibus; superioribus depressis. *Encycl. bot.* 4. p. 634.— 1.

Plant. grass. cum icone.—*Pers. synopsis*, 512.—*Sempervivum sediforme.* *Jacq. hort. vind.* 1. t. 81.—*Jacq. misc. nat.* 1. p. 135. t. 5.—*Hort. kew. ed.* 1. v. 2. p. 149.—*et ed.* 2. v. 3. p. 173.—*Sedum ochroleucum.* *Smith. prod. fl. græc.* p. 312.—*Smith. in tinn. soc. lond. tr.* v. 10. p. 6.

HABITAT in Europa australi, Græcia. H. 4.

FLORET Jul.

INTROD. 1769.

OBS. Dr. Smith has done well in removing this plant from *Sempervivum* to *Sedum*, as above stated; and in finding fault with the first edition of *Hortus kewensis* for not doing so; and, which is now still more faulty, in persevering in such error, in the *second* edition; after his remarks. But the Doctor has omitted to inform us, that the *Encyclop. bot.* (and Persoon in his compact *Synopsis*) had long before the merit of fixing this plant in its true genus, and with an admirable name: for in stature it far excels its kindred species.

In some gardens it is known by the name of *Sedum dioicum*; and is so named in the third edition of *Donn's Catalogue* printed in 1804.

*reflex-
um.*

2.

S. (Reflex-leav'd) foliis subulatis sparsis glaucescentibus confertis semuncialibus basi solutis, senectis reflexis.—*Sedum reflexum*. Willd. *sp. pl.* 2. p. 764.—*Hort. kew.* ed. 2. v. 3. p. 113.—*Eng. bot.* 695.

β. minus.

HABITAT in Angliæ muris, tectis.

H. 4.

FLORET Jun. Jul.

OBS. *Sedum rupestre* Plant. grass. vix differt, sed potius *S. glauci* varietas.

*septan-
gulare.*

3.

*

S. (Seven-rowed) foliis subulatis septemfariis glaucis confertissimis incurvo-adscendentibus fere semuncialibus basi solutis.

HABITAT in Europa? (vix in Anglia.) H. 4.
FLORET Jun. Jul.

CULT. ante 1795.

OBS. Præcedenti simillimum, at ramis brevioribus, foliis longè compactioribus glaucioribus, magis incurvis, et manifestissimè septemfariis.

virens.

4.

S. (Green) foliis subulatis sparsis viridibus basi solutis, floribus cymosis, petalis calyce lanceolato-sesquilongioribus. Willd. *sp. pl.* 2. p. 764.—*Hort. kew.* ed. 2. v. 3. p. 114.

HABITAT in Lusitania.

H. 4.

FLORET Jun. Jul.

INTROD. 1774.

*glau-
cum.*

5.

*

S. (Dwarf Glaucous) valdè ramosum, foliis subulatis sparsis perglaucis trilinearibus basi solutis.

HABITAT in Britannia.

H. 4.

FLORET Jun. Jul.

OBS. Species valdè distincta. Facies *S. reflexi*, at multoties minus, et alium.—*variat*.

α. majus, ramis ramulisque elongatis reptantibus 4-uncialibus.

β. minus, ramis ramulisque magis compactis, erectioribus, 1-2-uncialibus.

S. (Rock) foliis subulatis sparsis basi solutis *rupestre*. glaucis; floribus cymosis, petalis calyce duplo 6.

longioribus. *Willd. sp. pl. 2. p. 764.*—

Hort. kew. ed. 2. v. 3. p. 114.—*Eng. bot.*

170.—*Sedum rupestre Plant. grass. est alium.*

HABITAT in Anglia.

H. 4.

FLORET Jul. Aug.

S. (Forsterian) foliis subulatis confertis multi- *Forsteri*. fariis patentibus basi solutis, floribus cymosis, 7.

calycis laciniis brevibus rotundatis. *Eng.*

bot. 1802.—*Hort. kew. ed. 2. v. 3. p. 114.*

HABITAT in Wallia.

H. 4.

FLORET Jul. Aug.

** OBTUSIFOLIA.

S. (Four-cleft) foliis sparsis teretibus obtusis, *quadri-* caule simplici, floribus umbellatis tetrapetalis. *fidum*.

Willd. sp. pl. 2. p. 766.—*Pers. synopsis 1. 8.*

p. 512.

HABITAT in rupibus Asiæ borealis.

H. 4.

FLORET Jul.

INTROD. 1800.

S. (Naked-branch'd) foliis sparsis oblongo-cy- *nudum*. lindraceis obtusis, caulibus fruticosis ramo- 9.

sissimis, ramis tortuosis, cymis terminalibus.

Hort. kew. ed. 1. v. 2. p. 112.—*Willd. sp.*

pl. 2. p. 769.—*Hort. kew. ed. 2. v. 3. p. 118.*

Pers. synopsis 1. 513.

HABITAT in Madeira.

G. H. 1.

FLORET Jul.—Nov.

INTROD. 1777.

- album.* S. (White) foliis oblongis obtusis tereti-
 10. sessilibus patentibus, cyma ramosa. *Willd.*
sp. pl. 2. p. 766.—*Hort. kew. ed.* 2. v. 3.
 p. 114.—*Eng. bot.* 1578.—*Plant. grass.*
cum icone.

HABITAT in Angliæ muris—prope Fulham, &c.

H. 2.

FLORET Jun. Jul.

- hispani-* S. (Spanish) foliis linearibus tereti-depressis
cum. sparsis, cyma patula, floribus hexapetalis.
 11. *Willd. sp. pl.* 2. p. 766.

HABITAT in Hispania.

H. 2.

FLORET Jun. Jul.

INTROD. ante 1732.

OBS. Folia præglauca s. alba.

- villosum.* S. (Villous) foliis oblongis supra planiusculis
 12. pedunculisque axillaribus subunifloris pubes-
 centibus; petalis ovatis obtusiusculis. *Willd.*
sp. pl. 2. p. 768.—*Hort. kew. ed.* 2. v. 3.
 p. 116.—*Eng. bot.* 394.—*Plant. grass. cum*
icone.

HABITAT in Anglia.

2.

FLORET Jun. Jul.

- annuum.* S. (Annual) caule erecto solitario annuo, foliis
 13. ovatis sessilibus gibbis alternis, cyma recurva.
Willd. sp. pl. 2. p. 768.—*Hort. kew. ed.* 2.
 v. 3. p. 114.

HABITAT in Europa boreali.

H. 0.

FLORET Aug.

CULT. ante 1739.

S. (Annual dark) caule erecto, floribus corymbosis fastigiatis. *Willd. sp. pl. 2. p. 769.* 14.

—*Plant. grass. cum icone.*

HABITAT in Italia—Helvetia, alpinis. H. ☉.

FLORET Aug.

CULT. ante 1795.

Diversissima planta a *Crassula rubente*. *Caulis* erectus, pollicaris, ramis ad radicem duobus oppositis, altitudine caulis. *Folia* oblonga, basi soluta. *Pedunculi* alterni, uniflori, in corymbum fastigiatum digesti. *Calices* atropurpurascetes. *Petala* alba, ovata, longitudine calycis. *Stamina* decem. *Germina* atropurpurascencia. *Willd. l. c.*

S. (Thick-leav'd) foliis oppositis ovatis obtusis *dasy-*
carnosis, caule infirmo, floribus sparsis. *Willd. phyllum.*
sp. pl. 2. p. 763.—*Hort. kew. ed. 2. v. 3.* 15.
p. 113.—*Curt. lond. cum icone*—*Eng. bot.*
656.—*Plant. grass. cum icone.*

HABITAT in Angliæ muris, prope Kew, &c.
H. ♀.

FLORET Jun. Jul.

OBS. Although capable of resisting the greatest cold of our rigorous winters, if not over wet; this plant is capable of enduring even the heat of a hothouse, and flowering there. Every leaf if planted, or even laid upon the earth, will grow.

S. (Six-rowed) foliis subovatis adnato-sessilibus gibbis erectiusculis sexfariam imbricatis. *sexangu-*
lare.
Willd. sp. pl. 2. p. 767.—*Hort. kew. ed. 2.* 16.
v. 3. p. 115.—*Curt. lond. cum icone.*—*Eng.*
bot. 1946.—*Plant. grass. cum icone.*

HABITAT in Anglia.

H. ♀.

FLORET Jun. Jul.

acre.

17.

S. (Acrid) foliis obovatis adnato-sessilibus gibbis erectiusculis alternis, cyma trifida. *Willd. sp. pl.* 2. p. 767.—*Hort. kew. ed. 2. v. 3. p. 115.*—*Curt. lond. cum icone.*—*Eng. bot.* 839.—*Plant. grass. cum icone.*

HABITAT in Angliæ siccis.

H. 4.

FLORET Jun.

β. apicibus ramulorum eleganter flavis.

anglicum.

18.

S. (English) foliis obovatis adnato-sessilibus gibbis alternis, cyma ramosa, bifida. *Willd. sp. pl.* 2. p. 768.—*Hort. kew. ed. 2. v. 3. p. 115.*—*Eng. bot.* 171.

HABITAT in Angliæ siccis.

H. 4.

FLORET Jul. Aug.

α. minus.

β. varietas ex Hibernia.

PENTHORUM. *Gen. pl.* 790.

Cal. 5-fidus. *Petala* nulla ad quinque. *Caps.* 5-cuspidata, 5-locularis.

Sedoides. P. (Sedum-like) *Willd. sp. pl.* 2. p. 770.—
1. *Hort. kew. ed. 2. v. 3. p. 116.*

HABITAT in Virginia.

H. 4.

FLORET Jul. Aug.

CULT. 1768.

OBS. This plant obtains a place here, more on account of its near affinity to *Sedum*, than as a succulent plant, though it is a little so.

Classis XI.

DODECANDRIA

MONOGYNIA.

PORTULACCA. Gen. pl. 824.

Corolla 5-petala. Calyx 2-fidus. Capsula 1-locularis, circumscissa.

P. (Garden Purslane) foliis cuneiformibus car- *sativa.*
nosis, floribus sessilibus, caule ramisque sub- 1.
erectis. *Nobis misc. nat. p. 136.—P. oleracea*
β. Linn. sp. pl. 1. 639.—Willd. sp. pl. 1. 859.
Portulacca oleracea. Hort. kew. ed. 2. v. 3.
p. 147.—Portulacca latifolia, sativa. Bauh.
pin. 288. 1.

HABITAT in America meridionali. H. ☉.

FLORET Aug. Sept.

CULT. 1652.

Obs. Simillima sequenti, staturâ plus duplo ma-
jore, ramis ramulisque erectis, vel erectiuscu-
lis, nec prostratis humive depressis.

β. (*aurea*) foliis summis aureis. (Anglicè
Golden Purslane.) *Nobis l. c.*

P. (Small Purslane) foliis cuneiformibus car- *oleracea.*
nosis, floribus sessilibus, ramulis prostratis. 2.
Nobis in misc. nat. p. 136.—P. oleracea. Linn.
sp. pl. 1. 638.—Willd. sp. pl. 1. 895.—
Plant. grass. cum icone.—Portulacca angus-
tifolia sive sylvestris. Bauh. pin. 288. 2.

HABITAT in Europa, et Jamaica. H. ☉.

FLORET Aug. Sept.

CULT. 1582.

OBS. Rami ramulique semper plus minusve decumbentes seu prostrati, vel humi adpressi. *Nobis l. c.*

parvifolia. P. (Small-leav'd) ramosissima prostrata, foliis cuneiformibus minutis carnosiss, floribus altè pedunculatis, sessilibusque.

3.

*

HABITAT in Jamaica.

St. ☉.

FLORET Aug.

INTROD. 1799.

OBS. Forte præcedentium varietas, at longè minor, foliis decuplo (vel plus) minoribus.

quadrifida. P. (Quadrifid) bracteis quaternis, floribus quadrifidis, caule geniculis pilosis. *Willd. sp. pl. 2. p. 860.*—*Hort. kew. ed. 2. v. 3. p. 147.*—*Jacq. collect. 2. p. 356. t. 17. f. 4?*—*Nobis misc. nat. p. 137.*

4.

HABITAT in India orientali.

S. ☉.

FLORET Aug. Sept.

INTROD. 1773.

An hujus generis?

meridiana. P. (Meridian) foliis ellipticis carnosiss planis, geniculis pilosis, floribus sessilibus terminalibus. *Linn. sup. pl. 248. excluso synonymo Hermannii.*—*Willd. sp. pl. 2. p. 861.*—*Hort. kew. ed. 2. v. 3. p. 148.*—*Nobis misc. nat. p. 137.*

5.

HABITAT in Ind. or.

S. ☉.

FLORET Mai. Jun.

INTROD. 1791.

OBS. Hanc speciem nec vivam neque siccam vidi.—An hujus generis?

pilosa. P. (Hairy) foliis subulatis alternis: axillis pilosis, floribus sessilibus terminalibus. *Willd.*

6.

sp. pl. 2. *p.* 86.—*Hort. kew. ed.* 2. *v.* 3. *p.* 147.—*Mill. dict. ed.* 8. *no.* 2.—*Nobis misc. nat.* *p.* 137.—*Com. hort. amst.* 1. *t.* 5.

HABITAT in Ind. occ.

S. ♂.

FLORET Jun.—Oct.

CULT. 1790.

TALINUM. *Juss. gen.* 312.

Corolla 5-petala. *Calyx* 2-phyllus. *Capsula* 3-valvis, polysperma.

T. (Triangular) foliis planis canaliculatis cuneiformibus emarginatis mucronatis, racemo simplicibus: pedunculo triquetro. *Willd. sp. pl.* 2. *p.* 862.—*Hort. kew. ed.* 2. *v.* 3. *p.* 148.—*Portulacca triangularis. Jacq. obs.* 1. *p.* 35. *t.* 23.—*Portulacca racemosa. Nobis miscel. nat.* *p.* 139.

HABITAT in Ind. occ.

St. h.

FLORET Aug. Sept.

CULT. 1739.

T. (Thick-leav'd) foliis planis obovatis mucronatis, corymbo elongato, pedunculis triquetris. *Willd. sp. pl.* 2. 862.—*Jacq. hort. vindob.* 3. 52.—*Nobis misc. nat.* *p.* 140.

HABITAT....

S. h.

FLORET Aug. Sept.

INTROD. ante 1800.

An satis a præcedenti distinctum?

T. (Spreading-flower'd) foliis ovatis planis, panicula terminali, pedunculis dichotomis. *Willd. sp. pl.* 2. 863.—*Jacq. hort. vind.* 1. 151.—*Hort. kew. ed.* 2. *v.* 3. *p.* 148. (excluso synonymo longissimè discrepante *Bot. rep.*)—*Nobis misc. nat.* *p.* 140.

HABITAT in America meridionali.

St. ♂.

FLORET Aug.—Oct.

INTROD. 1776.

OBS. Flores rubri.

*reflex-
um.*

4.

T. (Reflex-flower'd) foliis lanceolato-ovatis sessilibus oppositis, florum panicula ramosa. *Cav. ic. 1. p. 1. t. 1.*—*Nobis misc. nat. p. 141.*—*Talinum patens* β. *Willd. sp. pl. 1. 863.*

HABITAT in America meridionali. S. ♂. s. ⊙.

FLORET Aug.—Oct.

INTROD. ante 1800.

OBS. Præcedenti longè elatius, floribus luteis, magis paniculatis.

OBS. This is a more tender plant than the preceding. Both seed very freely.

RÜLINGIA. (*Ehrhr. beit.*)

Corolla 5-petala: *Calyx* diphyllus. *Capsula* tenuiter conica unilocularis demum 6-valvis, valvis deciduis. *Semina* alata. Suffrutices præsucculentæ, foliis gibbis, difformibus. *Stipulæ* intrafoliaceæ, laceratæ, filamentiformes.

*Anacam-
pseros.*

1.

R. (Great) foliis ovatis difformibus glabris viridibus, pedunculis teretibus elongatis subpaniculatis. *Portulacca Anacampseros*. *Linn. sp. pl. 1. 639.*—*Hort. kew. ed. 2. p. 128.*—*Mill. dict. ed. 8. no. 3.*—*Nobis misc. nat. p. 141.*—*Talinum Anacampseros*. *Willd. sp. pl. 2. p. 862.*—*Hort. kew. ed. 2. v. 3. p. 148.*—*Plant. grass. cum icone.*—*Anacampseros foliis acuminatis*. *Linn. hort. cliff.*—*Linn. hort. ups.*

HABITAT C. B. S.

S. ♀.

FLORET Jul. Aug.

CULT. 1732.

OBS. Dr. Sims in *Bot. magaz.* has thought it

eligible to adopt the discarded Linnæan generic name of *Anacampseros* for this plant and its kindred, in compliance with a suggestion of mine in *Miscellanea naturalia*;—but on more mature consideration it appears more desirable to retain Ehrhart's name of *Rülingia* for them; and to restore the more ancient one of *Anacampseros* of Ray and Tournefort, to the plants they intended by it; viz. *Sedum Anacampseros* Linn. and its flat-leaved affinities.

- R. (Cobweb) foliis ovatis acuminatis difformibus viridibus lucidis arachnoideis, racemo simplicis, pedunculis teretibus elongatis. *Portulacca arachnoides*. *Nobis misc. nat. p. 142.*—*Anacampseros arachnoides*. *Bot. magaz. 1368.*
—*Hort. kew. ed. 2. v. 3. p. 149.*

HABITAT C. B. S?

S. $\frac{1}{2}$.

FLORET Aug. Sept.

CULT. circa 1790.

- R. (Red-leav'd) foliis ovatis acuminatis difformibus lucidis atrorubentibus arachnoideis, apicibus respicientibus, racemo simplici, pedunculis longissimis.—*Portulacca rubens*. *Nobis misc. nat. p. 142.*

HABITAT C. B. S?

S. $\frac{1}{2}$.

FLORET Aug. Sept.

CULT. ante 1796.

- R. (Thready) foliis imbricatis expansis atroviridibus arachnoideis, supernè rugosis; filamentis axillaribus folio longioribus. *Portulacca filamentosa*. *Nobis misc. nat. p. 142.*—*Anacampseros filamentosa*. *Bot. magaz. 1367.*—*Hort. kew. ed. 2. v. 3. p. 149.*

HABITAT C. B. S,

S. $\frac{1}{2}$.

FLORET Aug. Sept.

INTROD. ante 1795.

lanceo-
lata.

5.

*

R. (Spear-leav'd) foliis lanceolatis carnosis, subtus convexis, scapo folioso brevi subuni-
floro.—*Portulacca lanceolata*. *Nobis misc.*
nat. p. 142.

HABITAT C. B. S?

S. 4.

FLORET Aug. Sept.

INTROD. ante 1796.

TRIGYNIA.

EUPHORBIA. *Gen. pl.* 823.

Calyx 1-phyllus, turbinatus, quinquefidus, laciniis supernè orbiculiformibus crassis expansis. *Petala* 0 vel 5, flavicantia intra calycem et ei adnata, pectinata, dentibus circiter sex. *Paleæ* minutissimæ numerosæ erectæ supernè ramosæ, albæ ramentaceæ reconditæ inter *stamina* medio articulata. *Antheræ* didymæ. *Capsula* 3-cocca pedunculata. *Suffrutices* præsucculenti lactescentes, nudi, vel rariùs seminudi, angulis aculeatis.

* ACULEATÆ, *Nudæ*, foliolis inconspicuis, vel omnino nullis.

Scolo-
pendrea.

1.

E. (Scolopendra) nuda apice incurvo-uncinata, subcompressa, hinc convexa, inde concava, aculeis geminis divergentibus.—*Euphorbia Scolopendria*, *Hortorum*, et *Donn. cat. hort. cant. ed. 3—6. p. 131.*—*Euphorbia procumbens.*—*Radix tuberosa extus rugosa, fusca, Cyclaminis radici simillima.*—*Ramuli rariores nudi, lineis exarati, aculeis instructi procumbentibus.* *Meerburg. Rariores, tab. 55.*—(Obs. *radicem tuberosam non vidi. Fortè in senectissi-*

mis solùm adest. H.)—Euphorbia uncinata.

Plant. grass. cum icone.—Pers. synopsis 2.

10.—*Hort. kew. ed. 2. v. 3. p. 155.*

HABITAT C. B. S.

FLORET Jun.—Aug.

INTROD. 1794.

E. (Upright triangular) nuda erecta aculeata, *trigona*.
 triangularis, articulata, ramis erectis, subcana- 2.
 liculatis. *Euphorbia (trigonum) aculeata nuda*
triangularis, articulata, ramis erectis. Mill.
dict. ed. 8. no. 3.—Euphorbia antiquorum β.
Linn. sp. pl. 1. 646.

HABITAT in India orientali.

S. h.

FLORET Jul. Aug.

CULT. ante 1768.

E. (Spreading triangular) erecta aculeata trian- *antiquo-*
 gularis subnuda articulata: ramis expansis *rum.*
 subgeminatis.—*Euphorbia antiquorum. Linn. 3.*
sp. pl. 1. 646.—Mill. dict. ed. 1. no. 8.—
Willd. sp. pl. 2. p. 881.—Pers. synopsis. 2. 10.
—Hort. kew. ed. 2. v. 3. p. 155.—Euphorbia
antiquorum verum. Comm. hort. amst. 1.
p. 23. t. 12.

HABITAT in India orientali.

S. h.

FLORET Jul. Aug.

CULT. 1688.

OBS. Magna erecta, ramis expansis subrepandis,
 foliolis perpaucis minutis supernè, sessilibus
 subrotundo-cordatis deciduis.

E. (Marbled triangular) nuda, aculeata, arti- *lactea.*
 culata, ramis triquetris, subexpansis farctis, 4.
 solitariis viridibus, albo obsolete marmoratis.

HABITAT in India orientali.

S. h.

FLORET

INTROD. 1804.

OBS. Præcedenti fere duplo minor, foliolis simillimis, at minoribus.

- canariensis*. E. (Canary 4-angled) nuda tetraquetra, aculeis geminatis uncinatis, floribus subsessilibus.
 5. —*Euphorbia canariensis*. Willd. *sp. pl.* 2. p. 882.—*Hort. kew. ed.* 2. v. 3. p. 156.—*Plant. grass. cum icone*.

HABITAT in Canariis.

S. h.

FLORET Mar. Apr.

CULT. 1697.

- heptagona*. E. (Seven-angled) aculeata nuda septangularis, spinis solitariis subulatis floriferis. Willd.
 6. *sp. pl.* 2. p. 883.—*Hort. kew. ed.* 2. v. 3. p. 156.

HABITAT C. B. S.

S. h.

FLORET Jul.—Nov.

CULT. 1731.

- nigra*. α . heptagona, spinis nigricantibus.
rubra. β . 6-7-gona, humilior, ramosior, spinis brevioribus, summis ruberrimis.

- enneagona*. E. (Nine-angled) aculeata nuda erecta subenneagona, aculeis solitariis floriferis adscendentibus subfuscis, ramulis pendulis. *Ha-*
 7. *worth. misc. nat.* p. 184.
 *

HABITAT C. B. S?

S. h.

FLORET Jul.—Nov.

CULT. ante 1790.

- mammillaris*. E. (Wart-angled) aculeata seminuda, angulis tuberculatis spinis interstinctis, tuberculis junioribus folio instructis. Willd. *sp. pl.* 2. p. 883.—*Hort. kew. ed.* 2. v. 3. p. 156.—*Tithymalus aizoides africanus*, validissimis spinis ex tuberculorum internodiis provenientiibus.
 8. *Comm. prælud.* 59. t. 9.

HABITAT ad Caput Bonæ Spei. S. h.

FLORET Jul. Aug.

CULT. 1759.

E. (Cereus-like) aculeata nuda multangularis, *Cereifor-*
spinis solitariis subulatis. Willd. sp. pl. 2. mis.
p. 883.—Hort. kew. ed. 2. v. 3. p. 156. 9.

HABITAT C. B. S. S. h.

FLORET Jul.—Oct.

CULT. 1731.

Obs. Seedling plants have the short but ramose
 habit of the Medusa's-head Spurges. When
 struck from long cuttings, they assume a dif-
 ferent appearance, only branching at the top.

E. (Officinal) aculeata nuda multangularis, acu- *officina-*
leis geminatis. Willd. sp. pl. 2. p. 884.—rum.
Hort. kew. ed. 2. v. 3. p. 157.—Plant. grass. 10.
cum icone.

HABITAT in Africa. S. h.

FLORET Jun. Jul.

CULT. 1597.

E. (Many-angled) aculeata nuda, caudicibus *polygo-*
numerosis simplicibus erectis, 10—13-gonis, na.
aculeis solitariis floriferis expansis atris. Ha- 11.
*worth. misc. nat. p. 184. **

HABITAT C. B. S? S. h.

FLORET Jul.—Sept.

CULT. ante 1790.

E. (Melon-shaped) inermis subglobosa mult- *Melo-*
angularis. Willd. sp. pl. 2. p. 886.—Bot. formis.
rep. 617.—Plant. grass. cum icone.—Annals 12.
of botany, 1. p. 122. t. 2.

HABITAT C. B. S.— G. H. h.

FLORET Jun.—Oct.

INTROD. 1774.

β. suboblonga cucumeriformis.

OBS. Hæc species dioica est. Nostræ plantæ sunt mares.

** ACULEATÆ seminudæ, supernè foliis paucis distantibus magnis.

Nereifolia. E. (Oleander-leav'd) aculeis geminatis, angulis obliquè tuberculatis supernè foliosis, foliis oblongis. Willd. *sp. pl.* 2. p. 884.—*Hort. kew. ed.* 2. v. 3. p. 157.—*Plant. grass. cum iconc.*

13.

HABITAT in India.

S. h.

FLORET Jun. Jul.

INTROD. 1690.

β. Chinensis— minor ramis subinde compressis.

HABITAT in China.

FLORET. . .

G. H. h.

CULT. 1809.

varians. E. (Variable-stemm'd) aculeis geminatis; caule teretiusculo angulato; angulis oblique tuberculatis, supernè foliosis, foliis suboblongis.

14.

*

HABITAT in India orientali.

S. h.

FLORET. . . .

CULT. circa 1800.

grandifolia. E. (Great-leav'd) aculeis geminatis horizontalibus, basi latè confluentibus stipulaceis; caule tereti simplici, supernè foliis oblongo-spathulatis, costâ subtus deorsum carinatâ.

15.

*

HABITAT in Sierra Leona.

S. h.

FLORET. . . .

INTROD. circa 1798.

OBS. Folia maxima omnium fere pedalia, horizontali-subrecurvula perviridia; petiolis subuncialibus.

TREISIA. *Euphorbia* Linn.

Involucri triphylli folia infernè attenuata, supernè crenulata. *Stigmata* bipartita revoluta apicibus subglobosis. Cætera fere *Euphorbiæ*, absque paleis. *Caules* teretes inermes virides ramulis simplicibus non confertis imbricatim subtuberculatis, tuberculis junioribus foliolo longo finientibus. *Pedunculi* axillares persistentes longi solitarii erecti spinæformes, plus minus bracteolati, involucri absolute triphylli unifloro terminati.

T. (Club) imbricata, tuberculis foliolo lineari-clava. lanceolato; pedunculis pubescentibus persistentibus, bracteatis, bracteis obovato-cuneatis subintegris, petalis pectinato-serratis. 1.

Euphorbia (clava) inermis imbricata, tuberculis foliolo lineari-lanceolato instructis, floribus pedunculatis, petalis integerrimis. Willd. sp. pl. 2. p. 888.—Jacq. ic. 1. t. 85.—Euphorbium acaulon, erectum, tuberosum, linearibus foliis, flore ac fructu foliaceis. Burm. afr. 12. t. 6. f. 1.

HABITAT ad Caput Bonæ Spei. G. H. h;
FLORET Mar.—Aug.

INTROD. 1774.

OBS. I suspect *Euphorbia Bupleurifolia* may belong to this genus, but I know not its flowers.

T. (Porcupine) spinosissima; caule tereti seminudo supernè folioso, foliis lanceolato-linearibus, pedunculis unifloris, persistentibus demum spinosis; petalis ciliato-pectinatis.—*Euphorbia Hystrix. Willd. sp. pl. 2. p. 885.—*

Hystrix.
2.

Hort. kew. ed. 2. v. 3. p. 157.—*Jacq. hort. schænbr. 2. t. 207.*

HABITAT ad Caput Bonæ Spei. G. H. ½.

FLORET Jan.—Sept.

CULT. ante 1695.

Obs. *Flores* in nostra planta semper masculini, *pedunculi* longi graciles subulati corallini, perparce bracteati, vel nudi; absque pubescentia.

DACTYLANTHES. (Finger-flower.) *Euphorbia* Linn. &c.

Cal. 4-5-partitus laciniis expansis carnosis lacunosus altè digitatis. *Caps.* 3-cocca. Cætera (exceptis paleis petalisque) *Euphorbiæ*, at caulibus inermibus teretibus viridibus subimbricatim tuberculatis, tuberculis supremis apice folioliferis, foliolo ovato expanso.

Character ex sicc.

patula.

1.

D. (Spreading) inermis ramis teretibus flagelliformibus tuberculis quadrigonis. *Euphorbia patula.* Mill. dict. ed. 8.

HABITAT C. B. S?

G. H. ½.

FLORET Aug.

CULT. ante 1768.

Obs. *Rami* fere prostrati elongati flagelliformes, parum ramosi, ramulis apice rarius floriferis. *Flores* solitarii longè pedunculati, foliolis *calycinis* expansis carnosis rugosis albis, instar floris *Stapeliae*, at præsingulariter palmatis, vel potius digitatis.

anacantha.

2.

D. (Scaly) inermis imbricata, tuberculis foliolo subrotundo instructis, floribus terminalibus solitariis sessilibus, petalis palmatis. *Hort. kew. ed. 1. v. 2. p. 136; Euphorbia anacantha, ed. 2. v. 3. p. 159.*—*Willd. sp. pl. 2. p. 888.*

—Pers. synopsis. 2. 11. —*Euphorbium erectum*
aphyllum, ramis rotundis, tuberculis tetra-
gonis. Burm. afr. 16. t. 7. f. 2. —Bradley's
succ. 5. p. 12. t. 45.

HABITAT C. B. S. G. H. h.

FLORET Aug.

CULT. ante 1727.

D. (Tuberled) inermis imbricata, tuberculis tubercu-
compressis acutis foliolo lineari instructis, lata.
floribus longe pedunculatis, petalis palmatis. 3.
Willd. sp. pl. 2. p. 887. —*Euphorbia tubercu-*
lata. Jacq. hort. schænb. t. 208.

HABITAT C. B. S. G. H. h.

FLORET . . .

INTROD. 1805.

D? (Hook'd) tuberculis magnis subimbricatis, hamata.
apice fere recurvo-hamæformibus, supremis 4.
foliolo 2-3-lineari ovali demum marcescenti *
finientibus. —*Euphorbium caule rotundo, foli-*
olis hamatis, flore quadrifido, flavo. Burm.
afr. t. 6. f. 3.

HABITAT ad C. B. S. G. H. h.

FLORET . . .

INTROD. 1795.

OBS. As Burman represents this plant with a
quadrifid and quinquefid involucre, it may
not belong to this genus; but until I can see
its flowers, I know not where else to place it.

MEDUSEA. *Euphorbia* Linn. &c.

Calyx 4-5-partitus laciniis patentibus digitato-
pectinatis. *Capsula* trilocca. Cætera fere
Euphorbiæ, exceptis paleis; at caulibus in-
ermibus teretibus viridibus, ramulis simpli-
cibus capitato- s. verticillato-confertis effusis

perviridibus, (caput Medusæ simulantibus) imbricatim tuberculatis, tuberculis junioribus apice foliolo lineari suberecto semper finientibus.

procumbens.

1.

M. (Least Medusa's head) inermis ramis teretibus procumbentibus, tuberculis quadrigonis. — *Mill. dict. ed. 8. Euphorbia 12.* — *Euphorbia humile procumbens, ramis simplicibus copiosis, caule crassissimo tuberoso. Burm. afr. t. 10. f. 1.*

HABITAT C. B. S.

G. H. h.

FLORET

CULT. ante 1768.

Fructus-pini.

2.

M. (Small Medusa's head) inermis imbricata tuberculis foliolo lineari instructis. — *Mill. dict. ed. 8. Euphorbia 10.* — *Euphorbia Caput Medusæ, inermis imbricata, tuberculis foliolo lineari instructis, floribus subpedunculatis, petalis palmatis, var. β. Hort. kew. ed. 2. v. 3. p. 158.*

HABITAT C. B. S.

G. H. h.

FLORET Aug.

CULT. 1731.

β. ramissæpe geminatis. — *Euphorbia Caput Medusæ γ. Hort. kew. ed. 2. v. 3. p. 158.* — *Euphorbia procumbens, ramis geminatis, caule glabro oblongo cinereo. Burm. afr. 18. t. 9. f. 1.*

major.

3.

M. (Great Medusa's head) inermis tuberculis imbricatis, foliolo lineari instructis. — *Mill. dict. ed. 8. Euphorbia 7.* — *Euphorbia Caput-medusæ α. Hort. kew. ed. 2. v. 3. p. 158.* — *Tithymalus Aizoides africanus, simplici squamato caule. Comm. præb. 57. t. 7.*

HABITAT C. B. S.

G. H. h.

FLORET Aug.

CULT. 1731.

OBS. Pedalis ad sesquipedalem, superne ramis effusis, confertis.

β. Longe humilior, ramis numerosioribus, prope terram effusis.—*Euphorbia procumbens*, ramis plurimis simplicibus squamosis, foliolis deciduis. *Burm. afr. t. 8.*—*Euphorbia Caput-medusæ* δ. *Willd sp. pl 2. p. 887.*—*Euphorbia (inermis)* ramis plurimis procumbentibus, squamosis, foliis deciduis.—*Mill. dict. ed. 8. Euphorbia 13.*

HABITAT C. B. S.

G. H. h.

FLORET Aug.

CULT. ante 1768.

OBS. Merè planta seminalis.

M. (Checquer'd Medusa's head) caule pedali ad sesquipedalem, tuberculis densè tessellatis, superne confertim ramoso. 4.

HABITAT (Ex Lusitania accepi anno 1789)

G. H. h.

FLORET Aug.

OBS. Tuberculæ densiores quam in præcedente, numerosiores, spiraliter multifariæ, atque eleganter tessellatim dispositæ. Supremæ foliolis linearibus finientes.

OBS. All the Greenhouse species of this genus should have as much air as *Mesembryanthema*; otherwise they will draw up weak, and lose their characteristic distinctions. Most of them will live in a glass case without fire if kept dry in winter, and matted up from the effects of frost.

CREPIDARIA. (Slipper-spurge.) *Euphorbia*.
Linn. &c.—*Tithymaloides*. Tournef.—*Tithymalus*. Mill. dict. ed. 8.

Calyx monophyllus dentato-tripartitus. *Corolla* monopetala calceoliformi carnosae. (Mill. dict. l. c.)—Cætera *Tithymalorum* infra.

- Myrtifolia*. C. (Myrtle-leav'd) foliis ovatis acuminatis.
—*Tithymalus Myrtifolius*. Mill. dict. l. c.—
1. *Euphorbia Tithymaloides Myrtifolius*. Willd.
sp. pl. 2. p. 80.—*Hort. kew. ed.* 2. v. 3.
p. 160.—*Tithymalus curassavicus myrtifolius*,
flore coccineo mellifero. Herm. parad. 234.
cum icone.—*Euphorbia carinata*. Donn. hort.
cant. ed. 6.

HABITAT prope Carthagenam.

S. h.

FLORET Jun. Jul.

CULT. ante 1699.

OBS. *Folia* plana crassa viridia, ad costam sub-
tus profundè carinata.

- Padifolia*. C. (Padus-leav'd) foliis oblongo-ovatis obtusis
succulentis.—*Tithymalus Laurocerasifolius*.
2. Mill. dict. ed. 8. no. 2.—*Euphorbia Tithy-
maloides* β. *Padifolia*. Willd. *sp. pl.* 2.
p. 891.—*Hort. kew. ed.* 2. v. 3. p. 160.—
*Euphorbia (Anacampseroides) inermis fruti-
cosa*, foliis alternis obovatis obtusis, subtus
acutè carinatis. Lamarck. *encycl.* 2. p. 4:6.
—*Tithymaloides laurocerasifolia*, folio non
serrato. Dill. *elth. t.* 288. f. 372.

HABITAT in Ind. occ.

S. h.

FLORET Jun. Jul.

CULT. ante 1699.

- cordellata*. C? (Small Heart-leav'd) inermis fruticosa,
simplex, foliis alternis cordatis recurvis sessi-
libus diminutis.—*Euphorbia cordellata*. Ha-
3. worth. *misc. nat.* p. 185.
*

HABITAT

S. h.

FLORET

CULT. circa 1795.

Obs. The old genus *Tithymaloides* of Tournefort and Dillenius is here restored, but with a new name alluding to its slipper-shaped flowers; the termination of the old one being inadmissible, and that of Miller altered to *Tithymalus*, belonging with more propriety to the following genus.

TITHYMALUS. *Tournef.*—*Euphorbia*. Linn.

Flores sparsi, capitulati, s. aggregati, nec umbellato-involucrati. *Involucella* bracteacea diphylla. *Calyx* 4-5 partitus, laciniis integris supernè rotundatis. *Caules* inermes seminudi uniformes virgati foliorum vestigiis sæpe cicatricati.

* TUBEROSI. *Caudice brevi tuberoso.*

T. (Tuberos) umbella trifida, involucro diphylo, caudice tuberoso, foliis cordato-oblongis emarginatis deciduis.—*Euphorbia tuberosa*. Willd. *sp. pl.* 2. p. 905.—*Nobis in misc. nat.* p. 185.—*Tithymalus tuberosus acaulos, foliis oblongis cucullatis et planis.* *Burm. afr.* 9. t. 4.

HABITAT in Æthiopia.

G. H. h.

FLORET Oct.—Dec.

INTROD. circa 1800.

Obs. *Foliorum* margines venæque subtus ciliato-pubescentes. *Caudex* crassus, 1—3-uncialis lobato-ramosus irregularis, absque squamis tuberculisve.

Obs. At the time this plant was named *Euphorbia tuberosa* in my *Miscellanea*, I was

unaware of its having been described by Linnæus, and had not then seen Burman's figure of the adult plant.

*Bupleu-
rifolius.*
2.

T? (Conical) inermis capitatus imbricatus, tuberculis subrhombeis, foliis lanceolatis petiolatis, pedunculis unifloris, petalis integerrimis, bracteis flore longioribus.—*Willd. sp. pl.* 2. p. 888. (*Euphorbia Bupleurifolia.*) *Hort. kew. ed. 2. v. 3. p. 158.*—*Jacq. hort. schænbr.* 1. t. 106.

HABITAT ad Caput Bonæ Spei.

S. h.

FLORET Jun. Jul.

INTROD. 1791.

OBS. From the tuberculated caudex, I have but little doubt of this being a species of *Treisia*. I once saw Jacquin's figure above cited, but have forgot his delineation of the flowers.

** GRACILES. *Caulibus fruticosis, seminudis.*

*bractea-
tus.*
3.

T? (Bracteated) inermis, fruticosus; foliis oblongis, alternis, distichis; bracteis persistentibus. (*Euphorbia bracteata.*) *Jacq. hort. schænbr. v. 2. 14. t. 276.*

HABITAT

St. h.

FLORET

INTROD. ante 1809.

*pendu-
lus.*
4.
*

T? (Pendulous) fruticosus, inermis, nudus, ramulis teretibus effuso-dependentibus subarticulatis.

HABITAT

St. h.

FLORET

INTROD. ante 1808.

OBS. Omnino simillimus *Cacto pendulo*, Linn. at robustior, et lactescit. Etiam simulat *Ceropegiam aphyllam*, at crassior.

T. (Indian Tree-spurge). inermis, seminudus *Tirucal-*
fruticosus filiformis erectus, ramis patulis de- *li.*
terminatè confertis. (*Euphorbia Tirucalli*) 5.
Willd. sp. pl. 2. p. 890.—Hort. kew. ed. 2.
v. 3. p. 159.—Tiru calli. Rheed. mal. 2.
p. 85. t. 44.—Ossifraga lactea. Rumph.
amb. 7. p. 62. t. 29.

HABITAT in India orientali. St. h.

FLORET

INTROD. 1690.

T. (Barbary) inermis seminudus fruticosus fili- *maurita-*
formis flaccidus, foliis alternis. (*Euphorbia nicus.*
mauritanica) *Willd. sp. pl. 2. p. 889.—* 6.
Hort. kew. ed. 2. v. 3. p. 159.—Tithymalus
aphyllus mauritanicæ. Dill. elth. t. 289.
f. 373.

HABITAT in Africa. G. H. h.

FLORET Jun.—Aug. at rariss.

INTROD. 1732.

T. (Twiggy) seminudus fruticosus tenuis, foliis *virgatus.*
linearibus, pedunculis unifloris. (*Euphorbia* 7.
virgata) *Pers. synops. 2. 11.—Euphorbia*
mauritanica. Lamarck. enc. 2. p. 418.

HABITAT in Africæ maritimis. G. H. h.

FLORET

INTROD. circa 1808.

T. (Smooth spear-leav'd) inermis fruticosus *piscato-*
strictus, umbellis quinquefidis terminalibus, *rius.*
involucellis oblongis, foliis lanceolatis lævi- 8.
bus. (*Euphorbia piscatoria*) *Willd. sp. pl. 2.*
p. 889.—Hort. kew. ed. 2. v. 3. p. 159.

HABITAT in Madeira. G. H. h.

FLORET Jul.

INTROD. 1777.

- balsamiferus*. T. (Balsam) inermis fruticosus strictus, capitulo terminali, foliis lanceolatis lævibus glaucis. Willd. *sp. pl.* 2. p. 889.—(*Euphorbia balsamifera*) Hort. *kew. ed.* 1. v. 2. p. 137;—*ed.* 2. v. 3. p. 159.

HABITAT in Canariis.

S. h.

FLORET

INTROD. 1799.

OBS. An a penultimo satis distinctus?

- puniceus*. T. (Scarlet) umbella quinquesida; trifida, involu-
10. lucellis ovalibus acuminatis coloratis, capsulis glabris, foliis obovato-lanceolatis subtus glaucis. (*Euphorbia punicea*) Willd. *sp. pl.* 2. p. 916.—*Smith. icones pictæ*, t. 3.—Hort. *kew. ed.* 2. v. 3. p. 167.

HABITAT in Jamaica.

S. h.

FLORET Jan.—Mai.

INTROD. 1778.

- lætus*. T. (Mezereon-leav'd) umbella quadri- vel quin-
11. quesida: bis dichotoma, involuclis primis oblongis; superioribus rhombeo-subrotundis, foliis lineari-lanceolatis subemarginatis integerrimis (*Euphorbia læta*) Willd. *sp. pl.* 2. p. 907.—*Euphorbia divaricata*. Jacq. *ic.* 1. t. 87.

HABITAT

FLORET Jun. Jul.

CULT. 1758.

- mellifera*. T. (Honey-bearing) foliis sparsis lanceolatis
12. acutis lævibus, pedunculis dichotomis, capsulis mucicatis. (*Euphorbia mellifera*) Willd. *sp. pl.* 2. p. 892.—*Bot. magaz.* 1305.—Hort. *kew. ed.* 2. v. 3. p. 161.

HABITAT in Madeira.

G. H. h.

FLORET Ap. Mai.

INTROD. 1784.

T. (Twin-glanded) foliis oppositis minutissi- *biglan-*
mis petiolatis obovatis integerrimis, glandu- *dulosus.*
lis duabus geminatis caulinis ad basin peti- 13.
olorum; caule fruticoso tenui. *

HABITAT in insula Bourbon.

S. h.

FLORET Sept.

INTROD. ante 1808.

OBS. Ex sicco descriptus.

T. (Petioled) petiolis verticillatis, folio orbicu- *petiola-*
lato longioribus, floribus solitariis, caule fru- *ris.*
ticoso inermi nudo. *Bot. magaz.* 883.—*Eu-* 14.
phorbia petiolaris. *Hort. kew. ed. 2. v. 3.*
p. 160.

HABITAT in Ind. occ.

S. h.

FLORET Sept.

INTROD. circa 1800.

T. (Cotinus-leav'd) foliis oppositis subcordatis *Cotini-*
petiolatis emarginatis integerrimis, caule fru- *folius.*
ticoso. (*Euphorbia cotinifolia*) *Willd. sp.* 15.
pl. 2. p. 892.—*Hort. kew. ed. 2. v. 3. p. 169.*
—*Tithymalus arboreus americanus, cotini fo-*
lio. *Comm. hort. amst. 1. p. 29. t. 15.*

HABITAT in America merid.

S. h.

FLORET Jul. Aug.

INTROD. 1690.

*** ANNUI, magis foliosi.

T. (Various-leav'd) inermis, foliis serratis pan- *hetero-*
duræformibus; summis lanceolatis, floribus *phyllus.*
terminalibus subumbellatis. (*Euphorbia hete-* 16.
rophylla) *Willd. sp. pl. 2. p. 891.*—*Hort.*
kew. ed. 2. v. 3. p. 169.—*Tithymalus hete-*
rophyllus. *Plum. ic. 250. t. 251. f. 3.*

HABITAT in India occidentali, S. h.
FLORET Ap.—Sept.

CULT. 1690.

cyathophorus. 17. T. (Colour'd) inermis, foliis panduræformibus ovatis, floribus terminalibus subumbellatis, involucellis coloratis. (*Euphorbia cyathophora*) Willd. sp. pl. 2. p. 891.

HABITAT in America calidiore. S. h.

FLORET Jul. Aug.

INTROD. circa 1806.

OBS. Hunc post heterophyllum indicavi ob affinitatem et inflorescentiam, revera non exacte umbellatum. Distinctum a præcedente foliis superioribus nunquam lanceolatis. Variat involucris rubris et albis. Willd. l. c.

repandus.

18.

T. (Waved) villosus, foliis altè petiolatis alternis, latè ovatis repando-dentatis, summis oppositis, caule erecto striato subbipedali.

HABITAT in Ind. orient. S. d.

FLORET Aug.

INTROD. circa 1808.

OBS. Described from Mr. Vere's choice collection.

nudiflorus.

19.

T. (Naked-flower'd) inermis fruticosus, foliis ovatis integerrimis, cyma axillari nuda.—(*Euphorbia nuda*) Willd. sp. pl. 2. p. 892.

HABITAT in Peru?

S. h.

FLORET Aug.

INTROD. 1800.

OBS. Frutex humanæ altitudinis ramis sæpius trichotomis. Folia opposita et terna ovata margine subundulata glabra. Cymæ ramosæ in foliorum axillis absque involucris. Petala subrotunda tenuissima crenata. Styli connati. Capsulæ glabræ. Willd. l. c.

T. (Plum-leav'd) dichotomus, foliis subovatis *Prunifolius*.
 serratis acutis subvillosis, caule erecto glabro, *lius*.
 floribus in dichotomiis ramorum omnium soli- 20.
 tariis, dichotomiis superioribus cymosè ap-
 proximatis. *Hort. kew. ed. 2. v. 3. p. 161.*
 —*Euphorbia prunifolia*.

HABITAT in Peru?

H. ☉. s. S. ♂.

FLORET Jul.—Oct.

INTROD. 1799.

T. (Painted) dichotomus, foliis ovatis hirsutis *pictus*.
 petiolatis integerrimis, pedunculis axillaribus 21.
 unifloris, petalis ovatis, capsulis glabris.
 (*Euphorbia picta*) *Willd sp. pl. 2. p. 896.*
 —*Jacq. icones, 3. t. 477.*—*Hort. kew. ed. 2.*
v. 3. p. 162.

HABITAT in America meridionali.

S. ♀.

FLORET Mai.—Jul.

INTROD. 1780.

GALARHŒUS. *Euphorbia* Linn.

Flores præcipue terminales umbellato-involucrati.
Involucrum polyphyllum. *Involucellum* di-
 phyllum. *Calyx* 4-5 partitus, laciniis in-
 tegris supernè rotundatis. *Herbæ lactifluæ*,
 s. rarissimè suffrutices inermes, *caulibus* tere-
 tibus valde foliosis. Cætera Tithymali. Ge-
 nus recognoscendum.

* GLAUCI, *caulibus perennibus, foliis glaucis*
numerosis.

G. (Caper) umbella quadrifida: dichotoma, fo- *Lathy-*
 liis oppositis decussatis loratis integerrimis *ris*.
 glaucis, caule bienni.—*Euphorbia Lathyris*. 1.
Willd. sp. pl. 2. p. 906.—*Hort. kew. ed. 2.*
v. 3. p. 164.—*Eng. bot. t. 2255.*

HABITAT in Gallia, et Italia, et forte in Anglia.
 FLORET Mai.—Oct. H. ♂.
 CULT. 1597.

Genis- G. (Genista-like) umbella quinquesida bifida,
toides. involucellis ovatis, foliis linearibus erectis,
 2. caule frutescente. *Willd. sp. pl. 2. p. 908.*
 HABITAT C. B. S. G. H. ♀.
 FLORET Jul. Aug.
 INTROD. ante 1808.

Paralias. G. (Sea Tithymal) umbella subquinquesida: bi-
 3. fida, involucellis cordato-reniformibus, foliis
 sursum imbricatis. (*Euphorbia Paralias*)
Willd. sp. pl. 2. p. 912.—Hort. kew. ed. 2.
v. 3. p. 166.—Euphorbia paralia. Eng. bot.
t. 195.

HABITAT in Angliæ maritimis. F. ♀.
 FLORET Jul.—Sept.

OBS. Variat.

α. anglicus, minor, pedalis, foliis brevioribus.
Eng. bot. 195.

β. medius, sesquipedalis, foliis longioribus,
 paucioribus.

γ. major, 3-4-pedalis, caulibus suffruticosis.—
 G. H. ♀.—Forte propria species. Unde de-
 rivatur nescio.

Nicæen- G. (Sharp-leav'd) præglauca; foliis subimbricatis,
sis. anguste lanceolatis subcuspidatis, cau-
 4. libusque erecto-patulis.—*Euphorbia nicæensis.*
Willd. sp. pl. 2. p. 921.—Jacq. ic. 3. t. 485.

HABITAT in Hispania, &c. F. ♀.
 FLORES non vidi.

INTROD. ante 1809.

myrsini- G. (Glaucous) umbella suboctosida: bifida, in-
tes. involucellis subovatis, foliis spatulatis patentibus
 5. carnosiss mucronatis margine scabris.—

(*Euphorbia myrsinites*.) Willd. sp. pl. 2. p. 921.—Hort. kew. ed. 2. v. 3. p. 169.

HABITAT in Italia, Gallia, Hispania. H. 4.

FLORET Ap.—Jun.

CULT. 1570.

G. (Imbricated) umbella dichotoma bifida, in- *imbrica-*
voluc. subrotundis mucronatis, foliis obovatis *tus*.

imbricatis serrulatis, caule fruticuloso. (*Eu-* 6.
phorbia imbricata.) Persoon's synopsis, 2.

p. 14?—Willd. sp. pl. 2. p. 901.

HABITAT in Lusitania. *Petala* integerrima.

Stamina numerosa. *Filamenta* albida. Pers.
l. c. G. H. 2.

FLORET Aug. Sept.

INTROD. ante 1804.

** PERENNES, virides, foliis numerosis.

G. (Marsh) umbella multifida: subtrifida: bi- *palustris*.
fida, involucellis ovatis, foliis lanceolatis, ra- 7.

mis sterilibus. (*Euphorbia palustris*.) Willd.
sp. pl. 2. p. 922.—Hort. kew. ed. 2. v. 3.
p. 169.

HABITAT in Germania, Gallia, &c. H. 4.

FLORET Mai.—Aug.

CULT. 1570.

G. (Irish, Makinboy) umbella sexfida: dicto- *hyber-*
toma, involucellis ovalibus, foliis integerrimis, ramis nullis, capsulis verrucosis. (*Eu-* 8.

phorbia hyberna.) Willd. sp. pl. 2. p. 923.

—Hort. kew. ed. 2. v. 3. p. 170.—Eng. bot.
t. 1337.

HABITAT in Hibernia, Siberia, Austria, &c.

FLORET Mai. Jun.

H. 4.

G. (End-nick'd) umbella multifida: bifida, invo- *emargi-*
lucellis late cordatis, foliis oblongis emarginatis *natus*.

glabris, caule ramoso, capsulis subverrucosis. 9.

(*Euphorbia emarginata.*) Willd. sp. pl. 2. p. 923.—Hort. kew. ed. 2. v. 3. p. 170.

HABITAT in Italia. H. 4.

FLORET Jul. Aug.

CULT. 1758.

Androse- G. (Tutsan-leav'd) nudus, lævis; umbella quin-
mifolius. quefida; bifida; foliis sessilibus lanceolatis
10. utrinque venosis. (*Euphorbia Androse-mifo-*
* *lia.*) Donn. cat. hort. cantab. ed. 6. p. 139.

HABITAT in Hungaria. H. 4.

FLORET Jul.—Sept.

INTROD. 1804.

corallioi- G. (Coral-stalk'd) umbella quinquefida: trifida:
des. dichotoma, involucellis ovatis, foliis lanceo-
11. latis, capsulis lanatis. (*Euphorbia corallioi-*
des.) Willd. sp. pl. 2. p. 917.—Hort. kew.
ed. 2. v. 3. p. 168.

HABITAT in Sicilia, Barbaria, &c. H. 4.

FLORET Jun.—Aug.

CULT. 1752.

OBS. *Caules bipedales, corallii colore.*

β minor, caulibus gracilioribus rufescentibus.

OBS. I had this variety from the Nurseries as a Greenhouse plant, by the name of *Euphorbia nigra*.

spathu- G. (Spatula-leav'd) umbella quadrifida, bifida,
læfolius. involucellis obovatis; foliis spathulato-lan-
12. ceolatis integris reflexis, caule suffruticoso,
* subramoso.

HABITAT G. H. h.

FLORET Aug.

INTROD. ante 1800.

corolla- G. (Great-flower'd) umbella quinquefida: tri-
tus. fida: dichotoma, involucellis foliisque oblon-
13. gis obtusis, petalis membranaceis. (*Euphor-*

bia corollata.) Willd. sp. pl. 2. p. 916.—
Hort. kew. ed. 2. v. 3. p. 167.—*Tithymalus*
marianus. Pluk. mant. 182. t. 446, f. 3.

HABITAT in America septentrionali. H. 4.

FLORET Jul.—Sept.

INTROD. 1803.

G. (Sweet) umbella quinquefida: bifida: invo- *dulcis.*
lucellis subovatis denticulatis, foliis lanceola- 14.
tis obtusis apice denticulatis, capsulis verru-
cosis pilosis. (*Euphorbia dulcis.*) Willd.
sp. pl. 2. p. 909.—Hort. kew. ed. 2. v. 3.
p. 165.

HABITAT in Europa australi.

H. 4.

FLORET Mai. Jun.

CULT. 1759.

G. (Broad-leav'd) umbella quinquefida: bifida, *epithy-*
involucellis ovatis denticulatis, foliis integer- *moides.*
rimis lanceolatis obtusis retusis subtus villo- 15.
sis, capsulis papilloso-hispidis. (*Euphorbia*
epithymoides.) Willd. sp. pl. 2. p. 909.—
Hort. kew. ed. 2. v. 3. p. 165.

HABITAT in Austria.

H. 4.

FLORET Mai. Jun.

CULT. 1805.

G. (Juniper-leav'd) umbella quinquefida: bifi- *Pithyusa.*
da, involucellis ovatis mucronatis, foliis lan- *sa.*
ceolatis: infimis involutis retrorsum imbrica- 16.
tis. (*Euphorbia Pithyusa.*) Willd. sp. pl.
2. p. 911.—Hort. kew. ed. 2. v. 3. p. 165.
—*Pithyusa.* Dalechamp. hist. 1652.

HABITAT in Europa australi.

F. 2.

FLORET Jun. Jul.

CULT. 1741.

Salicifolius. G. (Willow-leav'd) umbella multifida: dichotoma, involucellis reniformi-cordatis, foliis lanceolatis villosis. (*Euphorbia salicifolia*.)

17. *Willd. sp. pl. 2. p. 923.*

HABITAT ad sylvarum margines Hungariæ.

FLORET Mai. Jun.

H. 4.

INTROD. 1804.

pilosus. G. (Hairy) umbella quinquefida: trifida; bifida, involucellis ovatis, petalis integris, foliis lanceolatis subpilosus apice serrulatis. (*Euphorbia pilosa*.) *Willd. sp. pl. 2. p. 917.*—*Hort. kew. ed. 2. v. 3. p. 168.*

18.

HABITAT in Siberia.

H. 4.

FLORET Mai.—Aug.

CULT. 1758.

carniolicus. G. (Carniolian) umbella quinquefida: bifida, radiis nutantibus, involucellis ovatis integerrimis, foliis lanceolatis acutis integerrimis, capsulis glabris verrucosis. (*Euphorbia carniolica*.) *Willd. sp. pl. 2. p. 910.*

19.

HABITAT in Carniola.

H. 4.

FLORET Aug.

CULT. ante 1795.

verrucosus. G. (Warted) umbella quinquefida: bifida, involucellis ovatis, foliis lanceolatis serrulatis villosis, capsulis verrucosis. (*Euphorbia verrucosa*.) *Willd. sp. pl. 2. p. 915.*

20.

HABITAT in Gallia, Helvetia, &c.

H. 4.

FLORET Jun.

INTROD. ante 1800.

OBS. Vidi crescentem regio horto Kewense.

orientalis. G. (Oriental) umbella quinquefida: quadrifida: dichotoma, involucellis subrotundis acutis, foliis lanceolatis. (*Euphorbia orientalis*.)

21.

Willd. sp. pl. 2. p. 917.—*Hort. kew. ed.* 2. v. 3. p. 168.

HABITAT in Oriente.

H. 4.

FLORET Jun. Jul.

CULT. 1739.

G. (Pear-rooted) umbella quinquefida: bifida, *Apios.*
involucellis reniformibus: primis obcordatis. 22.

(*Euphorbia Apios*) *Willd. sp. pl.* 2. 907.

—*Hort. kew. ed.* 2. v. 3. p. 164.

HABITAT in Caudia.

H. 4.

FLORET Jun. Jul.

CULT. 1596.

G. (Narrow notch-leav'd) umbella quinquefida: *serratus.*
trifida: dichotoma, involucellis diphylis reniformibus, foliis amplexicaulibus cordatis 23.

serratis. (*Euphorbia serrata.*) *Willd. sp. pl.* 2. p. 915.—*Hort. kew. ed.* 2. v. 3. p. 167.

—*Jacq. ic.* 3. t. 483.

HABITAT in Europa australi.

H. 4.

FLORET Jul.

CULT. 1710.

G. (Cretan hoary) umbella multifida, bifida, *creticus.*
involucellis orbiculatis, foliis lineari-lanceolatis villosis. 24.

(*Euphorbia cretica.*) *Mill. dict.* †

ed. 8. no. 28.—*Tithymalus creticus characias, angustifolius, villosus et incanus.* *Tournef. cor.* 1.

HABITAT in Oriente, Hispania, atque Lusitania.

Mill. l. c.

H. 4?

FLORET....

CULT. ante 1768.

G. (Spinous) umbella subquinquefida simplici, *spinosus.*
involucellis ovatis: primariis trifariis, foliis 25.

oblongis integerrimis, caule fruticoso. (*Eu-*

phorbia spinosa.) Willd. *sp. pl.* 2. p. 908.—
Hort. kew. ed. 2. v. 3. p. 165.

HABITAT in Oriente.

F. 4.

FLORET Mai.—Sept.

CULT. 1710.

Linifoli- G. (Flax-leav'd) fruticosus, inermis; foliis spar-
us. sis, lanceolatis, mucrone innocuo terminatis;
26. terminalibus ternis. (*Euphorbia Linifolia*.)
Jacq. hort. vindob. 1. 86.—*Euphorbia linari-*
folia. Willd. *sp. pl.* 2. p. 893.

HABITAT....

h.

FLORET....

CULT. circa 1794.

rigidus. G. (Rigid) ramulis filiformibus, foliis numero-
27. sis lineari-oblongis subretusis, costâ subtus
conspicuâ mucronulo finiente, floribus subso-
* litariis terminalibus.

HABITAT....

H. h.

FLORET Jul. Aug.

CULT. circa 1795.

OBS. *Fruticulus* affinis G. spinoso, rigidus abs-
que pubescente, ut folia viridia semuncialia
erecta sive patula internodiis triplo longiora,
Ramuli minutim undulati cortice fulvo-fusco
subruguloso. *Involucra* nulla nisi folia supre-
ma. *Pedunculi* horizontales bilineares. *Pe-*
tala rotundata. Descriptio ex exemplo parvo
sicco.

Juncea. G. (Rushy) umbella quinquesida: dichotoma,
28. foliis involucrisque lineari-lanceolatis acutis,
involucellis ovato-oblongis acuminatis. (*Eu-*
phorbia juncea.) Willd. *sp. pl.* 2. p. 913.—
Hort. kew. ed. 2. v. 3. p. 166.—Jacq. hort.
schœnbr. 1. t. 107,

HABITAT in Porto Santo juxta Madeiram,

FLORET Jul.

G. H. 4.

INTROD. 1779.

G. (Aleppo) umbella quinquefida: dichotoma, *aleppi-*
involucellis ovato-lanceolatis mucronatis, fo- *cus.*

liis inferioribus setaceis. (*Euphorbia aleppi-* 29.

ca) Willd. sp. pl. 2. p. 913. Hort. kew.

ed. 2. v. 3. p. 166.—Mill. dict. ed. 8.

HABITAT in Creta atque Aleppo.

F. 4.

FLORET Jul. Aug.

CULT. 1739.

*** ANNUI.

G. (Letter'd) umbella quinquefida: trifida: di- *literatus.*
chotoma, involucellis lanceolatis, foliis lan- 30.

ceolatis denticulatis pubescentibus, capsulis

glabris verrucosis. (*Euphorbia literata*)

Willd. sp. pl. 2. p. 919.—Hort. kew. ed. 2.

v. 3. p. 169.—Jacq. ic. 3. t. 482.

HABITAT

H. ☉.

FLORET Aug.

INTROD. 1790.

G. (Annual Warded) umbella quinquefida: tri- *platy-*
fida: dichotoma, involucris carina pilosis, *phyllus.*

foliis serratis lanceolatis, capsulis verrucosis. 31.

(*Euphorbia platyphyllus*) Willd. sp. pl. 2.

p. 918.—Hort. kew. ed. 2. v. 3. p. 168.

HABITAT in Anglia.

H. ☉.

FLORET Jul. Aug.

G. (Upright) umbella quadri-quinquefida, trifi- *strictus.*
da, bifida, involucellis fere ovatis. Foliis 32.

lanceolatis, serratis, basi integris, lævibus.

Capsulis verrucosis absque pilis. (*Euphorbia*

stricta) Eng. bot. 333.—*Euphorbia platyphyllos* β. Hort. kew. ed. 2. v. 3. p. 168.

HABITAT in Anglia, prope Eversden Wood com. Cantab. H. ☉.

FLORET Aug.

OBS. I have once seen this growing in the Cambridge Botanic Garden, and also possess a wild specimen of it from the worthy Curator. It appears to be a far smaller plant than *G. platyphyllus*.

helioscopius.

33.

G. (Sun Spurge) umbella quinquefida: bifida: dichotoma, involucellis obovatis, foliis cuneiformibus serratis glabris, capsulis lævibus. (*Euphorbia helioscopia*) Willd. sp. pl. 2. p. 914.—Hort. kew. ed. 2. v. 3. p. 167.—Eng. bot. 883.

HABITAT in Anglia.

H. ☉.

FLORET Jul.—Sept.

micranthus.

34.

G. (Small-flower'd) umbella trifida: dichotoma, foliis lanceolato-obovatis serratis, involucellis cordatis, petalis integris, capsulis verrucosis. (*Euphorbia micrantha*) Willd. sp. pl. 2. p. 905.—Hort. kew. ed. 2. v. 3. p. 164.

HABITAT in Persia boreali.

H. ☉.

FLORET Jul. Aug.

INTROD. 1803.

OBS. *Caulis* teres simplicissimus pedalis glaber. *Folia* alterna obovato-lanceolata acuta glabra argute serrata. *Umbella* trifida dichotoma. *Involucrum* triphyllum ut folia caulina. *Involucella* cordata mucronata serrata. *Flores* parvi. *Petala* integra. *Capsula* punctis elevatis obsita. Willd. l. c.

ESULA. *Euphorbia* linn. &c.*Involucrum* polyphyllum. *Involucella* diphylla.*Calyx* 4-5-partitus, laciniis cerinis bicornibus, vellunatis. Cætera ut in *Galarhæo*. Genus recognoscendum.* *SUFFRUTESCENTES*, ramis *suffrutescentibus* (nec annuis); radicibus non repentibus. *Petalis* lunatis, *sublunatisve*.E? (Tree-like) umbella multifida; dichotoma, *dendroi-*
involucellis subcordatis: primariis triphyllis, *des.*caule arboreo. (*Euphorbia dendroides*) Willd. 1.*sp. pl.* 2. p. 924.—*Mill. dict. ed.* 8. no. 20. †

HABITAT in Italia, &c. H. h.

FLORET

INTROD. ante 1768.

E? (Upright-red) umbella multifida: bifida, *Chara-*
involucellis perfoliatis emarginatis, foliis lan- *cias.*ceolatis integerrimis, caule frutescente. (*Euphorbia* 2.*Characias*) Willd. *sp. pl.* 2. p. 925.—*Mill. dict. ed.* 8. no. 24.—*Hort. kew. ed.* 2.*v.* 3. p. 170.—*Eng. bot. t.* 442.

HABITAT in Gallia, Anglia, &c. S. h.

FLORET Aug. Sept.

E. (Wood) umbella quinquefida: bifida, *invo-* *sylvati-*
lucellis perfoliatis subcordatis acutiusculis, fo- *ca.*liis lanceolatis integerrimis. (*Euphorbia* 3.*sylvatica*) Willd. *sp. pl.* 2. p. 924.—*Mill.**dict. ed.* 8. no. 29.

HABITAT in Europa australiori.

FLORET Jul.—Sept. H. h. s. G. H. h.

CULT. ante 1768.

OBS. *Caules* fruticosi, proliferi, crassi. *Folia*
pilosa, perennia. *Petala* lunata, erosa. (E.
Characiæ vero integra) Willd. l. c.

Amygdaloides.

4.

E. (Almond-like) umbella multifida: dichotoma, involucellis perfoliatis orbiculatis, foliis obtusis. (*Euphorbia Amygdaloides*) Willd. *sp. pl.* 2. p. 924.—*Hort. kew. ed.* 2. v. 3. p. 170.—*Eng. bot. t.* 256.—*Mill. dict. ed.* 8. no. 21.

HABITAT in Angliæ sylvaticis.

H. 4. h.

FLORET Mar.—Jul.

OBS. *Folia* alterna, remota, tenuia (non coriacea rigida). *Caulis* herbaceus nec lignosus. *Umbellæ* etiam laterales. Willd. *l. c.*

β. foliis elegantissimè variegatis. G. H. s. F. h.

portlandica.

5.

E? (Portland) umbella quinquefida: dichotoma, involucellis subcordatis concavis, foliis lineari-lanceolatis acutis glabris patentibus. (*Euphorbia portlandica*) Willd. *sp. pl.* 2. p. 911.—*Hort. kew. ed.* 2. v. 3. p. 166.—*Eng. bot. t.* 441.

HABITAT in Anglia, com. Devoniense. H. h.

FLORET Mai.—Nov.

OBS. *Caules* fruticulosi, palmares, glabri, teretes, hyeme rubri. *Folia* alterna, subsessilia, lineari-lanceolata, mucronata, glabra, patentia, basi subtus rubra. *Ramuli* laterales: ex alis inferioribus steriles, demum excrescentes et caulem inumbrantes. *Umbellæ* terminales, quinquefidæ, dichotomæ, patentès. *Involucrum* foliis simile. *Involucella* subcordata, concava, mucronata. *Flores* subsessiles lutei. Primi et secundi masculi: Petalis muticis obtusissimis; Reliqui hermaphroditi: Petalis bicornibus. *Fructus* glabri angulis muricatis. Willd. *l. c.*

**** PERENNES**, *radicibus repentibus, ramis sterilibus annuis, foliis sæpe angustissimis, numerosissimis; petalis bicornibus luteis.*

E. (Dalechamp's) umbella multifida: bifida, *Dale-*
involucellis subcordatis, petalis subbicornibus, *champii.*
ramis sterilibus, foliis uniformibus. (*Eu-* 6.
phorbia Esula) *Willd. sp. pl. 2. p. 919.—*
Hort. kew. ed. 2. v. 3. p. 169.—E. inermis,
foliis lanceolato-linearibus involucris universalis
foliis quinis ovato-acutis, partialis semiorbi-
culatis. Linn. hort. ups. 141 —Savv. monsp.
47.—Esula. Riv. tetr. 227.—Esula minor.
Dalech. hist. 1653.—Dod. pempt. 374.

HABITAT in Germania, Belgio, Gallia, Helvetia, Carniola, Britannia. H. 4.

FLORET Jul.

E. (Cypress) umbella multifida: dichotoma, *Cyparis-*
involucellis subcordatis, ramis sterilibus, foliis *sias.*
setaceis, caulinis lanceolatis. (*Euphorbia Cy-* 7.
parissias) *Willd. sp. pl. 2. p. 920.—Hort.*
kew. ed. 2. v. 3. p. 169.—Eng. bot. t. 840.

HABITAT in Germania, Bohemia, Helvetia, Gallia, Britannia. H. 4.

FLORET Jul.

E. (Twiggy) umbella multifida: bifida; invo- *virgata.*
lucellis subtriangularibus; petalis bicornibus; 8.
foliis sessilibus erectis, superioribus latioribus;
capsulis scabris.—*Walst. et kit. fl. hung. tab.*
162. (Euphorbia virgata.)

HABITAT in Hungaria. H. 4.

FLORET Jul.

INTROD. 1807. *Donn. hort. cant. ed. 6.*

OBS. *Euphorbia virgata* Persoonii longissime differt, habitu, characteribus specificis, atque genericis.

- multicorymbosa*. E. (Many-flower'd) umbella multifida: dichotoma, involucellis semiorbiculato-cordatis, ramis sterilibus numerosis, foliis lineari-lanceolatis obtusis, infimis deorsum valde attenuatis; involucri ovato-oblongis.—*Euphorbia multicorymbosa*. Hortorum.

9.

*

HABITAT....

H. 4.

FLORET Jul.

CULT. ante 1805.

- angustifolia*. E. (Narrow-leav'd) umbella multifida conferta involucellis subcordatis, foliis numerosissimis confertis biuncialibus effusis anguste linearibus.

10.

*

HABITAT....

H. 4.

FLORET Jul.

CULT. circa 1780.

- biumbellata*. E. (Double-umbell'd) umbella multifida duplici, involucellis subcordatis, foliis linearibus.

11.

HABITAT in Barbaria, Monspeli. *Poir. it. ed. germ. t. 1.—Persoon. synops. 1. p. 17.—(Euphorbia biumbellata.)*

H. 4.

FLORET Aug.

CULT. ante 1780.

*** ANNUÆ.

- segetalis*. E. (Corn) umbella quinquefida: dichotoma, involucellis cordatis acutis, foliis lineari-lanceolatis: superioribus latioribus. (*Euphorbia segetalis*) Willd. *sp. pl. 2. p. 913.—Hort. kew. ed. 2. v. 3. p. 166.—Jacq. austr. 5. p. 25. t. 450.*

12.

HABITAT in Europa australi.

H. 0.

FLORET Jul. Aug.

CULT. 1699.

E. (Linear-leav'd) umbella quinquefida: bifida, *provinci-*
 involucellis cordatis mucronatis, foliis oblon- *alis.*
gis. (Euphorbia provincialis) Willd. sp. 13.
pl. 2. p. 914.

HABITAT in Europa australi.

H. ☉.

FLORET Aug.—Nov.

INTROD. 1800.

E. (Rush-like) umbella quinquefida, bis bifida, *Juncoi-*
 involucellis semiorbiculato-cordatis, submu- *des.*
 cronatis, foliis linearibus semuncialibus retro- *14.*
 imbricatis, supremis involucrisque latè ovatis, *

HABITAT

S. ☉.

FLORET Jul.

INTROD. circa 1800.

OBS. I have a dry specimen of this from Chel-
 sea Physic Garden by the name of *Euphorbia*
Juncoides, where it is considered as distinct
 from the preceding, which it too much re-
 sembles; but appears to be many times smaller,
 and with narrower leaves. It will probably
 prove the same as the apparently narrower
 leaved *Tithymalus Junceus* above, which I
 only know from having once seen Jacquin's
 figure of it, and do not remember its generic
 characters.

E. (Spanish) umbella quadrifida, trifida, invo- *valenti-*
 lucellis ovatis acutis, foliis lanceolatis, infe- *na.*
 rioribus spathulatis. *15.*

HABITAT in R. Valentino in Hispania. *Cap-*
sula purpurascens lævis. Pers. synops. 1.
p. 15. (Euphorbia valentina.)

FLORET Jul.

INTROD. 1804.

H. ☉.

- exigua.* E. (Dwarf) umbella trifida: dichotoma, involu-
 16. cellis lanceolatis, foliis linearibus. (*Euphorbia exigua*) Willd. *sp. pl.* 2. p. 903.—*Hort. kew. ed. 2. v. 3. p. 164.*—*Curt. fl. lond. cum ic.*—*Eng. bot. t. 1336.*

HABITAT in cultis prope Londinum, atque in com. Ebor. prope Cottingham, at rarius.

H. ☉.

FLORET Jul. Aug.

- diffusa.* E. (Diffuse) umbella quadrifida: dichotoma,
 17. involu-cellis obtusis, foliis alternis, linearicuneiformibus emarginatis mucronatis, caule ramoso diffuso. (*Euphorbia diffusa*) Willd. *sp. pl.* 2. p. 907.

HABITAT in Austriæ arvis.

H. ☉.

FLORET Jul. Aug.

INTROD. 1798.

Valde affinis E. *exiguæ* β *retusæ*, sed excepto numero variante radiorum umbellæ distincta involu-cellis obtusis; a præcedente (E. *terraccina*) magnitudine, foliis glabris et habitu diversa. Willd. *l. c.*

- Peplus.* E. (Petty) umbella trifida: dichotoma, involu-
 18. cellis ovatis, foliis integerrimis obovatis petiolatis. (*Euphorbia Peplus*) Willd. *sp. pl.* 2. p. 903.—*Hort. kew. ed. 2. v. 3. p. 163.*—*Fl. lond. cum ic.*—*Eng. bot. t. 959.*

HABITAT in cultis Angliæ vulgatissima. H. ☉.

FLORET Jul.—Jan.

- minima.* E. (Least) umbella trifida dichotoma, involu-
 19. cellis latè obovatis, foliis integerrimis obovato-spathulatis, altè petiolatis, ramis longis simplicibus. *Euphorbia* β . *Peplis minor*. Willd. *sp. pl.* 2. p. 903. et *Bauh. hist.* 3. p. 670.
 *

HABITAT....

H. ☉.

FLORET Jul.—Sept.

CULT. circa 1800.

Obs. Præcedentis fere altitudo, at gracilior, foliis fere triplo minoribus magisque obtusis.

A semine non variat.

E. (Falcated) umbella trifida: dichotoma, invo- *falcata*.
lucellis subcordatis mucronatis, foliis lanceo- 20.

latis obtusiusculis. *Willd. s p. pl. 2. p. 903.*

—(*Euphorbia falcata*) *Hort. kew. ed. 2. v. 3.*

p. 163.—*Pithyusa minor subrotundis et acutis*

foliis. Barrel. icon. 751.—*Tithymalus Esula*

exigua chalepensis ramosior foliis latioribus

lintriformibus. Moris. hist. 3. p. 339. n. 7.

HABITAT in Europa australi.

H. ☉.

FLORET Jun.—Aug.

CULT. ante 1699.

ANISOPHYLLUM. *Euphorbia* Linn.

Involucrum nullum. *Calyx* 4-5-partitus, laciniis integris supernè rotundatis.—*Herbæ* annuæ, dichotomæ foliosæ, sæpe prostratæ. *Flores* præcipue axillares sparsi, seu aggregati, rarius solitarii.—*Folia* plus minus basi inæqualia Begoniarum modo. Cætera, Esulæ, at absque involucris, involucellisque.

* *Foliis uno latere basi obliquè inæqualissimis; floribus solitariis.*—CHAMÆSYCE Antiquorum.

A. (Purple) dichotomum, foliis integerimis se- *Peplis*.
micordatis, floribus solitariis axillaribus, cau- 1.
libus procumbentibus. (*Euphorbia Peplis*)
Willd. sp. pl. 2. p. 899.—*Hort. kew. ed. 2.*
v. 3. p. 163.—*Eng. bot. 2002.*

HABITAT in Angliæ maritimis Devonensibus.
FLORET Jul. Aug. H. ☉.

- Chamæ-* A. (Scollop-leav'd) dichotomum, foliis crenulatis
syce. subrotundis (semicordatis) glabris, floribus so-
2. litariis axillaribus, caulibus procumbentibus.
(*Euphorbia Chamæsyce*) Willd. sp. pl. 2.
p. 839.—Hort. kew. ed. 2. v. 3. p. 163.

HABITAT in Europa australi, atque Siberia.
FLORET Jul. Aug. H. ☉.
CULT. 1752.

** *Foliis minus inæqualibus; floribus plus minus aggregatis.*

- Polygo-* A. (Knot-grass-leav'd) foliis oppositis integer-
nifolium. rimis lanceolatis obtusis, floribus solitariis ax-
3. illaribus, caulibus procumbentibus. (*Euphorbia polygonifolia*) Willd. sp. pl. 2.
p. 900.—Hort. kew. ed. 2. v. 3. p. 163.—
Jacq. collectan. suppl. 114. t. 13. f. 3.

HABITAT in America boreali. H. ☉.
FLORET Jun. Jul.
INTROD. ante 1704.

- Thymi-* A. (Thyme-leav'd) dichotomum, foliis serratis
folium. ovali-oblongis, capitulis axillaribus glomeratis
4. subsessilibus, caulibus procumbentibus. (*Euphorbia thymifolia*) Willd. sp. pl. 2. p. 898.
—Hort. kew. ed. 2. v. 3. p. 162.—Pluk.
alm. 372. t. 113. f. 2.

HABITAT in India. S. ☉.
FLORET Jul. Aug.
CULT. ante 1699.

- Humboldtii.* A? (Humboldt's) erectum, ramis alternis, sub-
5. dichotomis filiformibus sulcatis, foliis alternis
* oppositisque longè petiolatis cuneato-ovatis

supra margineque pubescentibus; pedunculis terminalibus bracteatis.—*Euphorbia Humboldtii*. *Donn. hort. cant. ed. 6. p. 132.*

HABITAT (in America calidiore?) S. ♂.

FLORET Jul.—Oct.

INTROD. 1809, ex Gallia.

OBS. Communicavit Dom. Donn, siccatum.

Herba gracillima subdodrantalis, radice subbienni, fibris lateralibus paucioribus. *Folia* magna ratione ramorum pilosorum, et subinde uncialia. *Bracteæ* lineares pilosæ. *Flores* minutissimi, albicantes. *Capsulæ* minutæ læves. *Semina* ratione capsularum magna subrotundato-conica rugosula.—Descriptio ex sicc.—Fortè Tithymali species, ob foliorum formam.

- A. (Hyssop-leav'd) dichotomum, foliis subcrenatis linearibus, floribus fasciculatis terminalibus, caule erecto. (*Euphorbia hyssopifolia*) *Willd. sp. pl. 2. p. 897.—Hort. kew. ed. 2. v. 3. p. 162.* *Hyssopifolium.* 6.

HABITAT in America meridionali.

S. ☉

FLORET Aug. Sept.

INTROD. 1787.

- A. (St. John's-wort-leav'd) dichotomum, foliis serratis ovali-oblongis glabris, corymbis terminalibus, ramis divaricatis. (*Euphorbia hypericifolia*) *Willd. sp. pl. 2. p. 895.—Hort. kew. ed. 2. v. 3. p. 161.* *Hypericifolium.* 7.

HABITAT in India occidentali.

S. ☉.

FLORET Jun.—Sept.

CULT. 1727.

- A. (Basil-leav'd) inerme herbaceum ramosum, foliis subcordatis integerrimis petiolo brevioribus, floribus solitariis. (*Euphorbia ocymoides*) *Ocymoides.* 8.

Willd. sp. pl. 2. p. 894.—*Hort. kew. ed.* 2. v. 3. p. 161.

HABITAT in America meridionali. S. ☉.

FLORET Jun.—Aug.

INTROD. ante 1733.

denta-
tum.

9.

A. (Dentated) hirsutum pumilum, foliis oppositis ovalibus dentatis, floribus ad summitates congestis. (*Euphorbia dentata*) *Pers. synops.* 2. 13.—*Mich. fl.* 1. p. 211.

HABITAT in America boreali ad Tanassé, circa Nashville. *Folia* superiora maculata. l. c.

FLORET Jun. Jul.

H. ♂.

INTROD. 1806.

pilulife-
rum.

10.

A. (Pill-bearing) dichotomum, foliis serratis ovali-oblongis, pedunculis bicapitatis axillaribus, caule erecto. (*Euphorbia pilulifera*) *Willd. sp. pl.* 2. p. 897.—*Tithymalus botryoides erectus, florum capitulis conjugatis, et longiore pediculo insidentibus.* *Burm. zeylanic.* 224. t. 105. f. 1.—*Petiv. gazo.* t. 80. f. 14.

HABITAT in India orientali.

S. ☉.

FLORET Aug. Sept.

INTROD. 1800.

OBS. *Caulis* hirtus, *folia* hirtula, elliptico-lanceolata serrulata rufescentia, (lateribus basi valde inæqualibus) subinde subtrapezoidea.

macula-
tum.

11.

†

A. (Maculated) dichotomum, foliis serratis oblongis pilosis, floribus axillaribus solitariis, ramis patulis. (*Euphorbia maculata*) *Willd. sp. pl.* 2. p. 896.—*Hort. kew. ed.* 2. v. 3. p. 162.—*Jacq. hort. vindob.* 2. p. 87. t. 186.

HABITAT in America calidiore.

H. ☉.

FLORET Jul.

CULT. ante 1660.

- A. (Prostrate) dichotomum, foliis ovalibus obsolete serratis, pedunculis axillaribus subtrifloris, caulibus diffusis glabris. *Hort. kew. ed. 1. v. 2. p. 139.*—(*Euphorbia prostrata*) *Hort. kew. ed. 2. v. 3. p. 161.*—*Willd. sp. pl. 2. p. 895.* prostratum. 12. †

HABITAT in India orientali.

S. ☉.

FLORET Jul. Aug.

CULT. 1758.

Caules herbacei spithamæi procumbentes teretes ramosi rubicundi. *Folia* opposita brevissime petiolata obtusiuscula glabra obsolete trinervia, supra viridia, subtus glaucescentia trilineararia. *Flores* axillares breviter pedicellati sæpe terni, interdum solitarii. *Petala* purpurea. *Hort. kew. l. c.*

- A. (Rosy) dichotomum diffusum, foliis obovatis obliquis basi subcordatis apice denticulatis, pedunculis unifloris axillaribus. (*Euphorbia rosea*) *Willd. sp. pl. 2. p. 895.* roseum. 13.

HABITAT in Japonia.

S. ☉.

FLORET Aug.

CULT. 1808.

Variat valde magnitudine. *Folia* avenia inferiora latiora et majora. *Flores* axillares in ramorum apice. *Calyx* purpureus. *Petala* lineari-obovata obtusa rosea. *Germen* papillis minutissimis obsitum. *Capsula* junior etiam papillosa, adulta vero glabra. *Willd. l. c.*

Obs. Planta parva ramosa procumbens rubescens nuda. *Folia* opposita trilineararia semi-rotundato-cordata obsolete crenulata, brevissime petiolata. *Flores* axillares, terminalesque solitarii, (vel supernè 2-3-nati) subpedunculati. *Capsulæ* læviusculæ. Forte præcedenti

nimis affine. Communicavit Dom. Gul. Anderson.

Ipecacuanha. A? (*Ipecacuanha*) dichotomum, foliis integerrimis lanceolatis, pedunculis axillaribus unifloris folia æquantibus, caule erecto. (*Euphorbia Ipecacuanha*) Linn.—*Pers. synops.* 2. p. 15.

14.

†

HABITAT in Amer. boreal. sabulosis. H. 4.

FLORET....

INTROD. Feb. 1812.

OBS. Pedunculi longi. Ab incolis ut vomitorium adhibetur. *Pers. l. c.* Non vidi. Forte alii Generis. Crescit in horto Dom. Vere.

DODECAGYNIA.

SEMPERVIVUM. (Houseleek.) *Gen. pl.* 837.

Calyx 12-partitus. *Petala* 12. *Capsulæ* 12, polyspermæ.

* FRUTESCENTIA. GRANDIFOLIA. *Caule frutescente suffrutescenteve, vel cum radice rarissimè bienni; foliis spathulatis magnis.*

arboreum. S. (Tree) caule arborescente lævi ramoso, foliis cuneiformibus glabriusculis ciliatis: ciliis patulis mollibus. *Willd. sp. pl.* 2. p. 930.—*Hort. kew. ed.* 2. v. 3. p. 171.—*Plant. grass. cum icone.*

1.

HABITAT in Lusitania, et Oriente. G. H. 4.

FLORET Aug.—Mar.

CULT. 1640.

β. Foliis eleganter variegatis: (Striped Tree-Houseleek.)

OBS. This is a beautiful variety when kept in the Greenhouse in winter; but when it is ne-

cessary to place it in the open air in summer, it so nearly loses its elegant variegation that gardeners sometimes suppose there are two, or more varieties. Replaced in the house it speedily resumes it; and is indeed one of the greatest ornaments a greenhouse can possess; very far excelling the plant in its customary green state.

Miller gives the following account of its origin.

“There is a variety with variegated leaves, which is much esteemed by the curious: this was obtained by a branch which had been accidentally broken from a plant of the plain kind at Badmington, the seat of His Grace the Duke of Beaufort, which, after having laid some time, was planted, and when the young leaves pushed out, they were variegated.” *Mill. dict. l. c.*

S. (Canary) caule frutescente, foliis orbiculato-spathulatis villosis, nectariis subquadratis truncatis. *Willd. sp. pl. 2. p. 931.—Hort. kew. ed. 2. v. 3. p. 171.—Plant. grass. cum icone.* canariense. 2.

HABITAT in Canariis.

G. H. ♂.

FLORET Jun. Jul.

CULT. 1699.

OBS. *Petala 9. Stamina 18. Pistilla 9.—Hort. kew. ed. 1. v. 2. p. 147.*

This forms by far the largest heads of leaves of any in the genus.

S. (Glutinous) caule frutescente, foliis cuneiformibus viseidis ciliatis: ciliis cartilagineis adpressis. *Willd. sp. pl. 2. p. 931.—Hort. kew. ed. 2. v. 3. p. 172.* sum. 3.

HABITAT in Madeira.

G. H. ♀.

FLORET Jul. Aug.

INTROD. 1777.

** SUFFRUTESCENTIA. PARVIFOLIA. *Caule suffrutescente, vel rarissimè bienni, seu annuo; foliis spathulatis minoribus.*

- glandulosum.* S. (Glandular) caule frutescente, foliis orbiculato-spathulatis margine glutinosis, glandulis globosis, nectariis cuneiformibus truncatis. *Willd. sp. pl. 2. p. 931.—Hort. kew. ed. 2. v. 3. p. 172.*

HABITAT in Madeira.

G. H. h.

FLORET Mar.—Aug.

INTROD. 1777.

- villosum.* S. (Villous) foliis spathulato-cuneiformibus obtusis villosis, nectariis palmatis: lacinulis subulatis. *Willd. sp. pl. 2. p. 933.—Hort. kew. ed. 2. v. 3. p. 172.*

HABITAT in Madeira.

G. H. h.

FLORET Jun. Jul.

INTROD. 1777.

- tortuosum.* S. (Twisted) foliis obovatis subtus gibbis villosis, nectariis bilobis. *Willd. sp. pl. 2. p. 933.—Hort. kew. ed. 2. v. 3. p. 173.—Curt. bot. magaz. 296.*

HABITAT in Canariis.

G. H. h.

FLORET Jul.—Oct.

INTROD. 1779.

- stellatum.* S. (Starry) caule herbaceo pubescente, foliis spathulatis sparsis. *Smith in linn. soc. lond. trans. v. 1. p. 251.—Persoon. synops. 2. p. 20.*

HABITAT in Monte Baldo, rupibus.

S. ☉.

FLORET Jul. Aug.

CULT. ante 1790.

This whole plant is, as it were, a representation

in miniature of *Sempervivum arboreum*, but more lax and diffuse. It is abundantly distinguished from that species by its annual root, herbaceous pubescent stem, and spreading panicle. The flowers are yellow, and agree perfectly with the generic character of *Sempervivum*, not with that of *Sedum*. *Smith. l. c.*

OBS. The resemblance this little annual bears to *Sempervivum arboreum*, is infinitely less than the above paragraph supposes; but it very closely approaches *S. villosum*; yet is quite a distinct species.

*** ACAULIA: *perennia: scapigera: foliis radicalibus multifariis expansis imbricatis, plerumque ciliatis.*

S. (Common) foliis ciliatis, propaginibus patentibus, floribus dodecandris dodecagynis, nec rariis cuneiformibus carunculatis. *Willd. sp. 8. pl. 2. p. 932.—Hort. kew. ed. 2. v. 3. p. 172. Curt. lond. cum icone.—Eng. bot. t. 1320.—Plant. grass. cum icone.*

HABITAT in Europæ rupibus, at vix in Britannia. H. 4.

FLORET Jul.—Sept.

CULT.

S. (African) foliorum marginibus serrato-dentatis, propaginibus patulis. *Mill. dict. ed. 8. num. 7.—Sedum afrum montanum, foliis subrotundis, dentibus albis serratis confertim natis. 9. Boerh. index alter. 1. p. 286. †*

HABITAT C. B. S.

G. H. 4.

FLORET

CULT. ante 1768.

“This sort grows naturally at the Cape of Good Hope: it is a very low plant, whose heads

spread close upon the ground; they are much smaller than those of the common Houseleek. The leaves have white edges, which are indented like the teeth of a saw; they spread open flat; the flowers are produced in loose panicles upon naked footstalks; they are small and white, so make but little appearance.

“This is propagated by offsets, which are put out in plenty from the sides of the heads; this must be planted in pots, sheltered from the frost in winter, and in summer placed in the open air with other hardy succulent plants.”

Obs. I have never seen this plant, but taken the above account of it from the eighth edition of Miller’s celebrated Dictionary; and had he not likewise therein enumerated *Cotyledon serrata*, should have almost supposed he had meant that plant by the above description.

hirtum. S. (Hairy) foliis caule petalorumque apicibus
10. hirtis. *Linn. amœn. academ. v. 4. p. 273.*—
† *Willd. sp. pl. 2. p. 934.*—*Pers. synops. 2.*
p. 22.—*Donn. hort. cantab. ed. 3, 4, 5, & 6.*
—*Sempervivum petalis fimbriatis sobole patula.*
Schmidt. ic. p. 63. t. 17.

HABITAT in Tauro Rastadiensi. H. 4.

FLORET Jun. Jul.

CULT. ante 1804. *Donn. l. c.*

“Folia radicalia acuminata, ciliata. *Caulis* subhirsutus, foliis ciliatis villosis. *Petala* valde longa, apice et margine subtus hirta.” *Linn. amœn. acad. l. c.*—“*Petala* 6; *Stamina* 12; *Pistilla* 6. *Mygind.*” *Willd. l. c.*

soboliferum. S. (Hen and Chicken) propaginibus globosis
11. decidentibus, petalis senis erectis fimbriatis,
foliis caulinis imbricatis. *Bot. magaz. 1457.*

—*Sempervivum globiferum*. Mill. dict. ed. 8?

—*Sempervivum petalis fimbriatis sobole compacta*. Schmidt. ic. p. 95. t. 26.

HABITAT

FLORET Jun. Jul. infrequenter.

CULT.

S. (Globiferous) foliis ciliatis, propaginibus globibosis. Willd. sp. pl. 2. p. 932.—Hort. kew. rum. ed. 2. v. 3. p. 172.—Bot. magaz. 507 (excluso synonymo Morisoni). 12.

HABITAT in Rutheno.

H. 4.

FLORET Jun. Jul.

INTROD. circa 1798.

“*Petala 12, subulato-lanceolata, flava, hirsuta, ciliata*. Haller.”—Willd. l. c.

S. (Mountain) foliis integerrimis, propaginibus montatulis. Willd. sp. pl. 2. p. 933.—Hort. kew. num. ed. 2. v. 3. p. 173.—Pers. syn. 2. 20.—Plant. grass. cum icone. 13.

HABITAT in Helvetia.

H. 4.

FLORET Jun. Jul.

CULT. 1752.

S. (Cobweb) foliis pilis intertextis, propaginibus globosis. Willd. sp. pl. 2. p. 933.—Hort. noideum. kew. ed. 2. v. 3. p. 173.—Bot. magaz. 68.—Plant. grass. cum icone.—*Sempervivum petalis integris, ocellis torulosis*. Schmidt. ic. p. 149. t. 38. 14.

HABITAT in Italiæ et Helvetiæ alpihus. H. 4.

FLORET Jun. Jul.

CULT. 1699.

Obs. This is the Cobweb Sedum of Gardeners, and is indeed one of the most interesting of succulent plants; for, independent of its pretty

red flowers and a peculiar neatness in the whole plant, the spider-webbed appearance of its leaves is very extraordinary. This arises from a dense cottony matter produced in the heart of the plant, protecting the unexpanded leaves from cold, &c.; and which each leaf as it enlarges, detaches a portion of, upon its tip; thus effecting a thread-like connexion from leaf to leaf, and often forming irregular reticulations, neatly and concentrically arranged.

Although, like the rest of this section, (the Cape one excepted,) it is sufficiently hardy to resist the cold of our rigorous winters, upon a wall or a rock, along with other hardy succulent plants; it succeeds better in a glass case, or greenhouse; and is even capable of thriving in the heat of a stove. In the open air succulent plants of the more hardy kind, suffer more in our climate from wet than from cold.

- cuspidatum.* S. (Pin-pointed) foliis linguæformibus acutis viridibus glabris, mucrone niveo bilineari; floribus densè spicatis. *Haworth. misc. nat.* 186.—*Cotyledon (spinosus) foliis oblongis spinoso-mucronatis, caule spicato. Mill. dict. ed. 8. no. 2?*—*Crassula (spinosus) caule simplicissimo, foliis mucronatis, floribus sessilibus lateralibus. Willd. sp. pl. 1. p. 1554.*—*Crassula spinosa. Hort. kew. ed. 2. v. 2. p. 194?*—*Crassula foliis planiusculis mucronatis. Gmel. fl. sib. p. 173. t. 67. f. 2.*

HABITAT in Siberia.

G. H. 2.

FLORET Aug.—At plantam florentem unam solùm vidi.

CULT. ante 1790.

Herba acaulis cæspitosa. *Radix* fibrosa perennis. *Folia* radicalia numerosissima, densissimè imbricata, orbiculatim nata ut in præcedentibus, at magis erecta; angustè linguæformia acuta vel elliptica carnosà nuda glabra viridia, supra planiuscula, subtus convexa, mucrone recto setaceo niveo bilineari. *Propagines*, exactè ut in præcedentibus, numerosissimi subglobosi breviter pedunculati. *Scapus* strictus dodrantalis subangulatus valde foliosus, foliis subdecurentibus, superioribus sensim minoribus et angustioribus, supremis omnino bractæformibus. *Flores* numerosi, densè spicati sessiles vel subsessiles acuti flavicantes, omnibus partibus fructificationis paucioribus quam in præcedentibus et sæpius circiter septem, sed nunquam sex vel quinque.—*Flores* siccos exceptos, non possideo. *Misc. nat. l. c.*

Obs. This can hardly be Miller's *Cotyledon spinosa*, for that does not appear to be a shy-flowering plant: and he says its flower-stalks rise about four inches high, and support four or five whitish flowers, which are cut at the brim into five parts. These appear in April, and are *sometimes* succeeded by seeds in England. This sort requires a very shady situation, for if it is exposed to the sun in summer, the plants will soon decay. It is propagated by offsets, like the Houseleek, and requires a pretty strong soil." *Mill. dict. l. c.*

Obs. Our plant is a free grower in any *dry* situation, but cannot resist our winters in the open air; and is so extremely difficult to flower, that I have not bloomed it once, although I have tried it in many situations during the last twenty years.

monan-
thes.

14.

S? (Single-flower'd Dwarf) foliis teretibus clavatis confertis, pedunculis nudis subunifloris, nectariis obcordatis. *Willd. sp. pl.* 2. p. 934. — *Hort. kew. ed.* 2. v. 3. p. 174. — *Curt. magaz.* 93.

HABITAT in Canariis.

G. H.

FLORET Jul.

INTROD. 1777.

Classis XII.

ICOSANDRIA

MONOGYNIA.

CACTUS. (Melon Thistle.)

Cactus Linn. &c.

Flores in capite tomenti magno cylindrico spinulis commixti, terminali. *Calyx* superus tubulosus sexlaciniatus coloratus lævis. *Corolla* supera hexapetaloidea laciniis patulis. *Stamina* numerosa brevia ore corollæ variè affixa. *Stigma* 5-radiatum. *Fructus* carnosus obconicus unilocularis. *Semina* parva angularia pulpo nidulantia.

Obs. *Suffrutices* rotundati angulati præsingulares, intus carne toto faret, *absque axe ligneo*, vel foliis: angulis fasciculatim regulariter spinosis: spinis plus minus stellatis.

C. (Turk's-Cap Melon-Thistle) subrotundus *Melocactus* quatuordecim-angularis. *Mill. dict. ed. 8. Cactus* 1.—*Cactus Melocactus, α, communis. Hort. kew. ed. 2. v. 3. p. 174.—Willd. sp. pl. 2. 938.*

HABITAT in America calidiore. S. h.

FLORET Jul. Aug.

CULT. ante 1688.

C? (Depressed) subrotundus, depressus, de-*depress-*cemangularis.—*Cactus Melocactus β. Hort. sus. kew. ed. 2. v. 3. p. 174.* 2.

HABITAT in America calidiore. S. h. †

FLORET . . .

INTROD. ante 1789.

OBS. I suspect that this and the following species (whose fructifications are unknown to me) will prove to be a distinct genus. From the common *Turk's-cap* they will probably differ in wanting the Cap; from *Cereus*, in being destitute of a ligneous axis inclosing medulla; and from *Mammillaria*, in not having mammillæ. All other genera in the order are sufficiently remote.

C? (Gibbous) subrotundus, profundè sub-sex-*gibbosus.* 3.
decim angularis; apice depresso, inerimi; angulis gibbero notabili sub singulo fasciculo *
spinarum; spinis nigris.

HABITAT . . . S. h.

FLORET . . .

CULT. ante 1808.

OBS. I have not seen this nor any other species with so small a number of angles as ten.—Described from Mr. Vere's collection.

C? (Recurv'd-spined) subrotundus quindecim-*recurvus.* 4.
angularis, spinis latis recurvis creberrimis.—
Cactus recurvus. Mill. dict. ed. 8. no. 3.—

Cactus nobilis. Willd. sp. pl. 2. 939. (excluso synonymo *Milleri*.)—Hort. kew. ed. 2. v. 3. p. 175.

HABITAT in Peru.

S. h.

FLORET....

CULT. ante 1768.

OBS. Spinæ longè majores quam in cæteris.

“This has two orders of thorns; one of which is straight and set on at the joints in clusters, spreading out from the centre each way like a star; and in the middle of each cluster is produced one broad flat thorn near two inches in length, which stands erect, and is recurved at the point, and is of a brownish red colour. These thorns are, by the inhabitants of Mexico, set in gold or silver, and made use of for picking their teeth; and the plant is by them called *Visnaga*, that is, toothpick.” *Mill. dict. l. c.*

intortus. C? (Twisted) oblongus, 13—16-angularis, angulis supernè in spiram intortis; spinis mediocribus, subinde subcurvatis.—*Cactus (intortus) subrotundus quindecimangularis, angulis in spiram intortis, spinis erectis*.—*Mill. dict. ed. 8. no. 2.*

5.

HABITAT in Antigua.

S. h.

FLORET....

CULT. ante 1768.

OBS. Spinæ subindè variè subcurvatæ, fulvæ, demum fuscæ.

nobilis. C? (Noble) oblongus multangularis, angulis spinisque mediocribus rectis.

6.

*

HABITAT in Mexico.

S. h.

FLORET....

INTROD. 1796.

OBS. This is the plant called *Cactus nobilis* in Kew Garden: but the *Cactus nobilis* of *Willd. sp. pl.* 2. 939. and *Hort. kew. ed.* 2. v. 3. p. 175. is the *Cactus recurvus* of Miller, which I conceive to be quite a different species. The present article when old is oblong. The spines are smaller than in most of the preceding species, and the bundles of them are perhaps more contiguous to each other.

OBS. 2. All the plants of this genus, as well as the following one, are extremely interesting to the collector of succulents. They are very tender, so cannot be preserved but in a good stove, and must have scarcely any water given them in the winter season, and if any, in their pans only. Miller speaking of them says :

“ These strange plants commonly grow upon the steep sides of rocks in the warmest parts of South America, where they seem to be thrust out of the apertures, having little or no earth to support them; their roots shooting down into the fissures of the rock to a considerable depth, so that it is troublesome to get the plants up, especially as they are so strongly armed with thorns as to render it very dangerous to handle them; and as these plants delight in those rocky places, they seldom live long when they are transplanted into better soil by the inhabitants of those islands. If a skilful botanist was to examine these plants in the places of their growth, there would probably be found a much greater variety of them than is at present known. Some of the large sorts which have been brought to England have been more than a yard in circumference, and two feet and a half high,

including their caps ; but I have been informed by several persons who have resided in the West Indies that there are plants near twice as large. All the species are plants of a singular structure, but especially the larger kinds of them, which appear like a large fleshy green Melon, with deep ribs, set all over with strong sharp thorns ; and when the plants are cut through the middle, their inside is nothing but a soft green fleshy substance ; very full of moisture. And I have been assured by persons of credit, who have lived in the West Indies, that in times of great draught, the cattle repair to the barren rocks, which are covered with these plants ; and after having ripped up the large plants with their horns, so as to tear off the outside skin with the thorns, they have greedily devoured all the fleshy moist parts of the plants, which has afforded them both meat and drink. But how any animal should ever attack plants which are so well defended by strong thorns, which are as hard and as stiff as whale-bone, or any other bony substance, is difficult to conceive ; nor could any thing but distress for moisture ever have tempted them to venture amongst these troublesome plants to search for relief, since they must encounter with many difficulties before they could find a method of dislodging the thorns. The fruit of all the sorts are frequently eaten. They are about three quarters of an inch in length, of a taper form, drawing to a point at the bottom towards the plant, but blunt at the top : the taste is an agreeable acid.—*Mill. dict. l. c.*

MAMMILLARIA. (Mammillary Thistle.)

Cactus Linn. &c.

Calyx superus coloratus 10—12-fidus, laciniis subimbricatis, supernè expansis, infernè coalitus in tubum nudum cylindricum; interioribus petaliformibus. *Stigma* subseptemfidum radiatum.

Obs. Suffrutices rotundati carnosi *absque axe ligneo*, lactescentes aphylli, mammillis crebrè tecti spiniferis; spinis subviginti in stellam ad apicem singulæ mammillæ. *Flores* inter bases mammillarum. *Fructus* bacca parva polysperma edulis coccinea, fere obconica, acicula. *Semina* rotundata parva pallida carne pulposa nidulantia.

M. (Small red spined) simplex, viridis, sub-*simplex*.
rotunda: tecta tuberculis ovatis apice spiniferis; spinis radiantibus rubris.—*Cactus mammillaris* α. *Hort. kew. ed. 2. v. 3. p. 175.*—*Plant. grass. cum icone.* 1.

HABITAT in India occidentali.

S. h.

FLORET Jul. Aug.

CULT. ante 1688.

M. (White-spined proliferous) multiplex sub-*prolifera*
rotunda: tecta tuberculis ovatis apice spiniferis; spinis radiantibus albicantibus.—*Cactus mammillaris prolifer.* *Hort. kew. ed. 2. v. 3. p. 175.* 2.

HABITAT in India occidentali.

S. h.

FLORET Jul. Aug.

CULT. ante 1688.

M. (Discolour'd) simplex discolor subrotunda: *discolor*.
tecta tuberculis ovatis apice spiniferis, spinis
radiantibus discoloribus. 3

HABITAT S. h.

FLORET

CULT. ante 1800.

OBS. Penultima duplo triplove major, atque distincta.

Described from a plant in Mr. Vere's collection.

CEREUS. (Torch-Thistle.)

Miller- &c.—*Cactus* Linn. &c.

Calyx inferus polyphyllus, imbricatus, foliolis internè coalitis in tubum longissimum imbricatum; imis sensim minoribus squamæformibus: supremis gradatim majoribus corallinis coloratis expansis. *Stigma* subtredecimfidum, radiatum, petalorum fere altitudine.

OBS. *Frutices* vel arbusculi, aphylli, carnosì, axe centrali ligneo durissimo *medullam* includente: *ramis* remotè subarticulatis longis angulato-sulcatis, angulis regulariter stellatim spinosis. *Flores* e centro spinarum fasciculorum solitarii magni speciosissimi nocturni fugacissimi. *Stamina* numerosissima flore breviora basi coalita cum tubo calycino. *Stylus* prælongus, stamina vix superans. Cætera Cacti; fructibus majoribus.

* GRANDANGULARES erecti allè-sulcati.

heptag- C. (Great seven-angled) erectus oblongus septemangularis. Linn. hort. cliff. 161.—Linn. nus. sp. pl. 1. 666.—Willd. sp. pl. 2. 939.—Pers. 1. synopsis. 2. 22. 12.—Hort. kew. ed. 2. v. 3. p. 176.—Royaen. lug. bat. 279.—*Cereus erectus octangularis, spinis lana longioribus.* Mill. dict. ed. 8. no. 6.—*Cereus erectus crassissimus maximè angulosus, spinis albis pluribus lon-*

gissimis lanugine flava. Boerh. index alter.
293.

HABITAT in India occidentali. S. h.

FLORET Jul.

INTROD. 1728.

OBS. An a sequenti satis distincta? Nunquam vidi.

C. (Great six-angled) erectus sexangularis longus: angulis distantibus. *Linn. hort. cliff. nus.*
181.—*Willd. sp. pl. 2. p. 940.*—*Persoon. 2.*
synops. 2. 22. 11.—*Mill. dict. ed. 8. no. 1.*—
Cereus erectus maximus americanus hexangularis, flore albo radiato. Bradl. succ. 1. p. 1. t. 1.

HABITAT in Surinam.

S. h.

FLORET Jul. Aug.

INTROD. 1690.

OBS. Variat angulis 5—8.

C. (Great peruvian) erectus longus suboctangularis: angulis obtusis. *Willd. sp. pl. 2. 941. nus.*
—*Hort. kew. ed. 2. v. 3. p. 177.*—*Plant. 3.*
grass. cum icone.

HABITAT in Peru.

S. h.

FLORET Aug.

INTROD. 1728.

C. (Noble) magnus subquinquangularis, sulcis profundis; spinis numerosis, sæpe uncialibus, fulvis. *nobilis.*
4.
*

HABITAT in India occidentali.

S. h.

FLORET....

INTROD. 1811 a Dom. Beake, qui communicavit.

OBS. Ferocior quam cæteris, a spinis prægrandibus, valde numerosis. Forte nimis affinis C. heptagono.

tetrago- C. (Great four-angled) quadrangularis longus
nus. erectus: angulis compressis. *Willd. sp. pl.* 2.

5. *p.* 939.—*Hort. kew. ed. 2. v. 3. p.* 176.—*Mill. dict. no.* 2.

HABITAT in America meridionali.

S. ½.

FLORET Jul.

CULT. 1710.

pentago- C. (Five-angled) erectus subquingularis
nus. longus articulatus. *Linn. hort. cliff.* 182.—

6. *Willd. sp. pl.* 2. *p.* 940.—*Hort. kew. ed. 2. v. 3. p.* 176.

** GRANDANGULARES, PROCUMBENTES, *vel*
SCANDENTES; ramis 3-4-quetris, radiculis
lateralibus.

triangu- C. (Great triangular) repens triangularis. *Willd.*
laris. *sp. pl.* 2. *p.* 943.—*Hort. kew. ed. 2. v. 3.*

7. *p.* 178.—*Cereus (compressus) repens triangu-*
laris, angulis compressis. Mill. dict. ed. 8.
no. 10.

HABITAT in India occidentali.

S. ½.

FLORET Jul. Aug.

CULT. 1790.

OBS. This species has perhaps the largest flower in the whole genus, but is so remarkably shy in producing it with us, that few have seen it. Miller never saw it, but mentions its having flowered at Hampton Court, and also at Wentworth Hall in Yorkshire, the seat of the Marquis of Rockingham. In Yorkshire it has also *recently* produced its large blossoms, but I had no opportunity of describing them.

OBS. 2. Sulci angulorum profundissimi. Spinae exiguae quatuor singulo fasciculo, decussatae.

- C. (Quadrangular) repens 3-4-angularis, angulis vix canaliculatis, spinis 5—7 stellatim fasciculatis 1—3-linearibus.—*Cactus repens subquinqueangularis.* *Plum. americ. t. 199.* 8. *

f. 1.

HABITAT in America meridionali. S. h.

FLORET....

CULT. ante 1809.

OBS. Forte sequentis varietas.

- C. (Small triangular) repens triqueter angulis vix canaliculatis, spinis 5—7 stellatim fasciculatis sublinearibus.—*Cactus triqueter* β. *Nobis in misc. nat. p. 190.*—*Cactus caule triangulari, articulado.* *Plum. americ. t. 200.* 9. *

f. 2.

HABITAT in America meridionali. S. h.

FLORET....

CULT. ante 1809.

OBS. Communicavit amicus Dom. Aiton, cum præcedente.

- C. (Least triangular) decumbens, triqueter, spinis fasciculatis divaricatis septenis 2-3-linearibus.—*Cactus triqueter.* *Nobis in misc. nat. p. 189.* 10. *

HABITAT in America meridionali? S. h.

FLORET....

CULT. ante 1794.

OBS. Suffrutex subramosus aphyllus succulentus 2—5-pedalis et ultra. *Caulis* triqueter subramosus carnosus omnino decumbens, angulis rectis (nec undulatis) fasciculato-spinosis. *Rami* pauci alterni pervirides cauli conformes, sæpe remoti, angulis subinde obsolete concavis, fasciculis spinarum approximatarum instructi. *Spinæ* circiter septem divaricatæ pum-

gentes sordide fulvæ in singulo fasciculo, præterea lana brevissima pulvinatim collecta ad bases spinarum, oculo inarmato vix conspicua. *Miscel. nat. l. c.*

*** PARVANGULARES, *erecti, graciles, sulcis minimè profundis.*

- Royeni.* C. (Royen's Nine-angled) erectus articulatus
11. novem-angularis: articulis subovatis, spinis lanam æquantibus. *Willd. sp. pl. 2. p. 941.* — *Hort. kew. ed. 2. v. 3. p. 177.* — *Cereus lanuginosus. Mill. dict. ed. 8. no. 7* — *Cereus erectus fructu rubro non spinoso. Herm. par. bat. 114.*

HABITAT in India occidentali.

S. h.

FLORET....

INTROD. 1728.

- lanuginosus.* C. (Woolly) erectus longus subnovem-angularis: angulis obsoletis, spinis lana brevioribus.
12. *Willd. sp. pl. 2. p. 94.* — *Hort. kew. ed. 2. v. 3. p. 177.* — *Cereus erectus fructu rubro non spinoso lanuginosus. Herm. par. bat. 115. t. 115.* — *Cereus repandus. Mill. dict. ed. 8.*

HABITAT in India occidentali.

S. h.

FLORET Jul.

INTROD. 1690.

- griseus.* C. (Grey-spined) erectus sublongus suboctangularis altè sulcatus, basi ramosus; spinis se-
13. nectis subinde semuncialibus, albis apice nigris.
*

HABITAT in America meridionali.

S. h.

FLORET....

CULT. ante 1809.

OBS. Lana nulla conspicua inter spinas.
From Mr. Vere's collection.

- C. (Tawny-spined) erectus longus subnovem-*fulvispi-*
angularis minime sulcatus ramosusve, spinis *nosus.*
validis fulvescentibus, senectis subinde unci- 14.
alibus.—*Cereus Royeni.* Mill. dict. ed. 8.—
nec aliorum. *

HABITAT in America meridionali. S. h.

FLORET....

CULT. ante 1795.

OBS. This is an old inhabitant of Chelsea Physic Garden,

- C. (Waved) erectus longus octangularis: an-*repan-*
gulis compressis undatis, spinis *longiori-*
bus. Willd. sp. pl. 2. p. 940.—*Hort. kew.* 15.
ed. 2. v. 3. p. 177.—*Cereus (gracilis) erectus*
gracilior novem-angularis spinis brevibus, an-
gulis obtusis. Mill. dict. ed. 8. no. 8.—*Cereus*
erectus gracilior, fructu extus luteo, intus ni-
veo, seminibus nigris pleno. Trew. ehret. 3.
t. 14.

HABITAT in India occidentali. S. h.

FLORET....

INTROD. 1728.

- C? (Cylindric) erectus debilis cylindricus non *cylindri-*
angulatus, superficie sulcis decussatis reticu-
lata. Willd. sp. pl. 2. p. 939.—*Hort. kew.* 16.
ed. 2. v. 3. p. 176.

HABITAT in Peru. S. h.

FLORET....

INTROD. 1799.

OBS. *Lana* spinis junioribus longior alba. Fo-
liola minuta Opuntiae gerit subtus spinarum
fasciculos. Flores non vidi.

OBS. 2. Since the above was written I have
found this plant is nearly destitute of the cen-
tral woody axis of the *Cerei*, whereby, as well

as in the minute foliation and reticulation, and want of angulation, above described, it nearer approaches the *Opuntia*; and have no doubt but it will eventually prove generically distinct from both.

**** PARVANGULARES, PROSTRATI, *vel scandentes, ramis tereti-multangularibus, radiculis lateralibus.*

*grandi-
florus.*
17.

C. (Great night-flowering) repens subquinquangularis. Linn. *sp. pl.* 1. 668.—Willd. *sp. pl.* 2. p. 941.—Hort. kew. ed. 2. v. 3. p. 178.—Plant. grass. cum icone.—Bot. repos. 508.—Mill. dict. ed. 8. *Cereus* no. 11.—*Cereus scandens minor polygonus articulatus*, Mill. icon. t. 90.—*Cereus gracilis scandens ramosus plerumque sexangularis, flore ingenti atque fragranti*. Trew. *ehr.* t. 31.

HABITAT in Jamaica et Vera Cruce. S. h.
FLORET Jun.—Aug.

CULT. ante 1700.

OBS. Miller, speaking of this celebrated plant, says—

“ When arrived at sufficient strength it will produce many exceeding large, beautiful, sweet-scented flowers; but they are (like most of the flowers of these kinds) of very short duration, scarcely continuing full blown six hours; nor do the same flowers ever open again, when once closed: they begin to open in the evening between seven and eight of the clock, are full blown by eleven, and by three or four the next morning fade, and hang down quite decayed: but, during their continuance, there is scarce any flower of greater beauty, or that makes a more magnificent appearance;

for the calyx of the flower, when open, is near a foot in diameter; the inside of which, being of a splendid yellow colour, appears like the rays of a bright star, the outside of a dark brown; and the petals of the flowers being of a pure white, adds to the lustre; and the vast number of recurved stamina surrounding the style in the center of the flower, make a fine appearance; and add to this the *fine scent* of the flower, which perfumes the air to a considerable distance: there is scarce any plant which *deserves* a place in the Hothouse *so much as this*, especially as it is to be trained against the wall, where it will not take up room. The usual season of its flowering is in July; and when the plants are large, they will produce a great number of flowers, so that there will be a succession of them for several nights, and many of them will open the same night. I have frequently had six, eight, or ten flowers open at the same time upon one plant, which have made a most magnificent appearance by candle light, but none of them have been succeeded by any appearance of fruit."—*Mill. dict. l. c.*

- C. (Creeping-Cereus) repens decemangularis. *flagelli*-
Linn. sp. pl. 1. p. 608.—Willd. sp. pl. 2. formis.
p. 942.—Hort. kew. ed. 2. v. 3. p. 178.—Curt. 18.
magaz. 1.—Plant. grass. cum icone.—Mill.
dict. ed. 8. Cereus 12.

HABITAT in America calidiore, atque in Arabia
 deserta. G. H. 2.

FLORET Jun. Jul.

INTROD. 1690.

OBS. Miller well observes that, "this sort produces a greater number of flowers than any of

the others; these are of a fine pink colour both within and without; the petals are not so numerous, and the tube of the flower is longer than those of the other species; and, contrary to all the other sorts, keeps open three or four days, provided the weather is not too hot, or the place where they stand kept too warm. During the continuance of these flowers they make a fine appearance. It may be placed amongst the first class of exotic plants; it has produced fruit in Chelsea Garden, but not yet ripened it." — *Mill. dict. l. c.*

Obs. 2. I have ripened in two different seasons many of the fruit of this *Cereus*. Like most of the other species, they take two years to mature in a Greenhouse; are roundish, and of a dull yellow-greenish colour, and about the size of the old green-hairy Gooseberry, and full of a sweetish-acid eatable pulp.

It is said to be one of the few plants which can exist in the sandiest deserts of Arabia.

RHIPSALIS. *Gært. Cactus Linn. &c.*

Calyx superus, tri- l. quadripartitus, brevissimus: dentibus acuminatis, membranaceis, tenuissimis. *Cor.* *Stam.* *Stylus.*
Bacca infera, unilocularis, pellucida. *Semina* duodena, centralia. *Gært. sem.* 1. 137. *t.* 28. *f.* 1.

Cassutha.

1.

R. (Naked) pendulis ramis verticillatis teretibus glabris muticis nudis viridibus.—*Rhipsalis Cassutha*. *Gært. sem. l. c.*—*Cactus pendulus*. *Willd. sp. pl.* 2. p. 942.—*Hort. kew. ed.* 2. v. 3. p. 178.—*Cactus parasiticus inermis aphyllus ramosus propendens, ramulis gracili-*

bus teretibus striatis. Browne's jam. 238.—

Cassutha filiformis. Mill. dict. ed. 8.

HABITAT in India occidentali.

S. h.

FLORET Sept.

INTROD. 1758.

R. (Pilose) penduli ramis verticillatis teretibus *parasiti-*
viridibus, junioribus subpilosus, pilis albis, fas- *cus.*

ciculatis; fasciculis ordine quincunci dispositis. 2.

—*Cactus parasiticus.* Plant. gruss. cum icone.

HABITAT in America meridionali.

S. h.

FLORET....

CULT. circa 1800.

OBS. Vidi ni male memini crescentem, regio
horto Kewense.

OBS. 2. The *Opuntia minima* flagelliformis of
Plumier appears to be a third species of this
singular genus.

OPUNTIA. (Indian-Fig.)

Miller. &c.—*Cactus* Linn. &c.

Calyx superus polyphyllus rosaceus, corollam
simulans absque tubo, interioribus foliolis
omnino corollaceis. Cætera fere ut in *Cereo*.

Frutices præsucculenti fere aphylli ligno cen-
trali nullo: ramis compressis, articulis proli-
feris ovatis oblongisve subreticulatis planis,
fasciculato-spinosis, fasciculis in quincuncis.

Flores speciosi terminales. *Bacca* magna
edulis pulposa.

* *GRANDISPINOSÆ articulis subovatis: spinis*
variis, minoribus sublinearibus, majoribus
4—15-linearibus.

O. (Great black-spined) erecta articulis late *elatio-*
ovato-oblongis, spinis subulatis longissimis 1.

nigricantibus.—*Opuntia (elator)* articulis ovato-oblongis, spinis longissimis nigricantibus. *Mill. dict. ed. 8. no. 4. Cactus Tuna* β . *Willd. sp. pl. 2. p. 944.*—*Hort. kew. ed. 2. v. 3. p. 179.*—*Tuna elator*, spinis validis nigricantibus. *Dill. elth. 395. t. 294. f. 379.*

HABITAT in America merid.

S. η .

FLORET Jul. Aug.

CULT. 1731.

Obs. Limbs of most of the *Opuntia* will live out of the ground half a year, if kept cool and dry, (but above freezing point,) and as they abound in highly antiscorbutic juice and pulp, have been found very serviceable at sea in long voyages, after other vegetables have been exhausted.—They are easily procured in hot climates, and appear to be worthy the mariner's further attention.

Tuna.
2.

O. (Great yellow-spined) erecta, articulis late ovato-oblongis, spinis subulatis longis flavis.—*Opuntia (Tuna)* articulis ovato-oblongis, spinis subulatis. *Mill. dict. ed. 8. no. 3.*—*Cactus Tuna*. *Willd. sp. pl. 2. p. 944.*—*Cactus Tuna* α . *Hort. kew. ed. 2. v. 3. p. 179.*—*Tuna major*, spinis validis flavicantibus, flore gilvo. *Dill. elth. 396. t. 295. f. 380.*—*Cactus cochinelifer*. *Plant. grass. cum duabus tabulis.*

HABITAT in America meridionali.

S. η .

FLORET Jul. Aug.

CULT. 1731.

β spinis (exceptis in senectis articulis) uniformibus brevissimis piliformibus.—*Tuna major*, spinis validis flavicantibus, flore sulphureo. *Dill. elth. p. 398. t. 294. f. 382?*

- O. (Lesser black-spined) erecta, articulis oblongis lanceolatisque, spinis diversiformibus fulvo-nigris, majoribus divaricatis 3—10-linearibus.—*Cactus nigricans*. Nobis in misc. nat. p. 137. 3. *

HABITAT....

S. h.

FLORET Aug.

CULT. circa 1795.

Obs. *Caudex* erectus spinosus carnosus compressus articulatus subramosus, per ætatem lignosus, atque teretior. *Rami* articulati ascendentes. *Articuli* oblongi et lanceolati carnosus virides spinosi. *Spinæ* fasciculatæ in ordine quincunci ut in affinibus crebræ primo sordidè fulvæ, denique fulvo-nigræ nigricantesve, diversiformes; majores valde divaricatæ. *Folia* minutissima ut in affinibus, subtus spinarum fasciculos, primo erecta, denique expansa atque decidua, subulata, planiuscula sesquilinear. *Flos* (unicus in horto, Aug. 1810) terminalis. *Germen* ut in O. Tuna, at spinis validioribus. *Petula exteriora* calycina, rosea, extus saturatiora, cuneata, apice subinde emarginata cum acumine: *interiora* ex luteo-fulvicantia. *Filamenta* numerosissima saturatè rosea. *Antheræ* (post anthesin solum vidi) intensè roseæ. *Stylus* magnus albicans. *Stigmata* quinque crassa antheras superantia, incurva, suboblonga luteo-virescentia.

β articulis angustioribus laxioribus, aculeis erectioribus sæpe solitariis.—*Cactus Opuntia Tuna*. Plant. grass. cum icone.

- O. (Humble yellow-spined) articulis cuneato-obovatis effuso-decumbentibus; spinis diversiformibus luteis, majoribus erecto-patulis 3—humilis. 4. *

14-linearibus.—*Cactus humilis*. *Nobis in misc. nat. p.* 187.

HABITAT....

S. h.

FLORET....

CULT. circa 1795.

Caudex valde ramosus spinosus carnosus articulatus, demum lignosus. *Rami* irregulares effuso-decumbentes articulati. *Articuli* cuneato-obovati virides percarnosi spinosi, juniores foliosi, ut in priore. *Spinæ* diversiformes fasciculatæ lutæ crebræ, majores erectiusculæ seu erecto-patulæ 3—14-lineares. *Flores* non vidi. *Misc. nat. l. c.*

polyantha.

5.

*

O. (Many-flower'd) articulis oblongis ovatisque, spinis diversiformibus flavis, majoribus setaceis erecto-patulis; floribus numerosis solitariis plerumque terminalibus flavis.—*Cactus Opuntia polyanthos*. *Plant. grass. cum icon.*

HABITAT in America calidiore.

FLORET....

INTROD. ante 1811.

** PARVISPINOSÆ ovato articulatæ, spinis numerosissimis uniformibus piliformibus, sæpissimè longitudine lineæ.

vulgaris.
6.

O. (Common dwarf) reptans, prostrata; articulis ovatis, spinis uniformibus numerosissimis piliformibus.—*Opuntia (vulgaris) articulis ovatis compressis, spinis setaceis*. *Mill. dict. ed. 8. no. 1.*—*Cactus Opuntia*. *Linn. sp. pl. 1. 669.*—*Willd. sp. pl. 2. p. 943.*—*Hort. kew. ed. 2. v. 3. p. 178*—*Cactus Opuntia nana*. *Plant. grass. cum icon?*

HABITAT in America, atque Europa australi.

FLORET Jul. Aug.

G.H. h.

CULT. 1596.

- O. (Oval upright) erecta, articulis ovato-ellipticis, spinis uniformibus numerosissimis brevissimis.—*Cactus strictus*. Nobis in misc. nat. p. 188.—*Cactus Opuntia inermis*. Plant. grass. cum icone. 7.
*

HABITAT

S. h.

FLORET

CULT. ante 1796.

Caudex erectus spinosus carnosus ramosus, demum lignosus. *Rami* articulati erecti. *Articuli* virides carnosii spinosi, juniores foliosi. *Spinæ* fasciculatæ vix lineares. *Folia* ut in prioribus. *Flores* non vidi.

*** PARVISPINOSÆ, OBLONGO-ARTICULATÆ, articulis longioribus quam in præcedentibus, spinis fere uniformibus, brevibus vel brevissimis, filiformibus vel subinde setaceis.

- O. (Great oblong) articulis ovato-oblongis crassissimis, spinis inæqualibus. *Mill. dict. ed. 8. no. 5. Opuntia maxima folio spinoso latissimo et longissimo. Tournef. inst. 240.* maxima.
8.

HABITAT in America meridionali. S. h.

FLORET

CULT. ante 1768.

OBS. Although Miller had this species ten feet high, it never produced its flowers with him.

- O. (Indian-fig) articulis ovato-oblongis, spinis setaceis. *Mill. dict. ed. 8. no. 2.—Cactus indica. Ficus-indica. Linn. sp. pl. p. 669.—Willd. sp. pl. 2. p. 914.—Hort. kew. ed. 2. v. 3. p. 179.* Ficus-
indica.
9.

HABITAT in America meridionali. S. h.

FLORET Jul. Aug.

CULT. 1731.

- cochinealifera*. 10. O. (Cochineal) articulis ovato-oblongis subinermibus. Mill. dict. ed. 8. no. 6.—*Cactus cochinelifer*. Linn. sp. pl. p. 670.—Willd. sp. pl. 2. p. 944.—Hort. kew. ed. 2. v. 3. p. 179.—*Tuna mitior flore sanguineo cochinelifera*. Dill. elth. 399. t. 297. f. 383.

HABITAT in America merid. S. h.

FLORET Jul.—Sept.

CULT. ante 1688.

OBS. This species has the smallest flowers of any in the genus known to me. It is the most proper to cultivate the *Coccus Cacti*, or *Cochineal Insect*, upon; because its spines are far smaller than in any other species, and consequently less annoy the hands employed to collect the *Cochineal* from it. But the last species, although more spiny, is often grown for the *Cochineal*. And in all probability the insect would thrive very well upon any of the species: yet perhaps best upon the least spiny.

Miller says: "This species is cultivated in the fields of New Spain, for the increase of the cochineal insects; but it grows naturally in Jamaica, where it is probable the true cochineal might be discovered, if persons of skill were to search for the insects."

OBS. It is more than probable, that any good entomologist would speedily detect the *Coccus Cacti* wherever any South American species of this genus of plants grows abundantly in a natural state.

- lanceolata*. 11. O. (Spear-shaped) suberecta, articulis lanceolatis spinis uniformibus brevissimis, foliis triangularibus.—*Cactus lanceolatus*. Nobis in misc. nat. p. 188.

HABITAT in America meridionali? S. h.

FLORET Jul.

CULT. ante 1796.

Obs. *Caudex* primo erectus, deumum suberectus, subinermis carnosus, sed per ætatem ramosus articulatus et lignosus. *Rami* etiam articulati erecti. *Articuli* lanceolati virides carnosi subinermes, juniores valde foliosi. *Spinæ* fasciculatæ uniformes, brevissimæ omnium (excepta præcedente). *Foliola* triplo majora quam in aliis, seu trilineararia et ultra. *Flos* (in horto Jul. 1808) superus terminalis quadriuncialis transversè, nitide luteus, fere ut in *Cacto Opuntia*, auctorum. *Filamenta* saturate lutea, petalis plus duplo breviora. *Stylus* longitudine staminum albidus. *Stigmata* quinque crassa obtusa bilineararia sulphurea.

**** SPINOSISSIMÆ, articulis longissimis.

O. (Horrid) articulis longissimis tenuibus compressis, spinis longissimis confertissimis gracilibus albicantibus armatis. *Mill. dict. ed. 8. no. 8.*—*Cactus (spinosissimus) caule erecto compresso, ramis oppositis bifariis compressis, spinis setaceis. Hort. kew. ed. 1. v. 2. p. 155. ed. 2. v. 3. p. 179.*—*Willd. sp. pl. 2. p. 945.*—*Martyn. hort. cant. 88.*—*Cactus (spinosissimus) suberectus compressus, articulis cruciatim dispositis, spinis creberrimis longis flavescens. Lamarck. enc. 1. p. 537.*

HABITAT in Jamaica.

S. h.

FLORET Jul. rarissimè.

CULT. ante 1768.

Obs. Miller observes: "The spines are very long, slender, and of a yellowish brown colour,

coming out in clusters all over the surface of the branches, crossing each other, so as to render it dangerous to handle; for upon being touched, the spines adhere to the hand and quit the branches, and penetrate into the flesh, so become very troublesome. It was sent me from Jamaica by the late Dr. Houstoun, who found it growing naturally there in great plenty, but could never observe either fruit or flower upon any of the plants, nor have any of them produced either in England."

OBS. I have never seen the flowers of this species, neither have any of the Gardeners or Nurserymen near London, as far as I can learn, nor is it marked as having produced any in any of the different editions of the *Hortus Kewensis*, or *Donn's Catalogue of the Cambridge Garden*: but it has blossomed once with my brother in Yorkshire, to whom I have imparted all the succulent plants in my power. Its flowers, I understand, resembled those of the other *Opuntias*.—The plant often arises erect to the height of fifteen or twenty feet, and the young branches become exsiccated and fall off as new ones are produced; so that the stem is always simple, except at the very top, where a few cruciated single-jointed branches appear. The older the plant is, the larger and more numerous the spines become; until at length they cover the whole stem in one horrid, interwoven, and impenetrable mass.

***** *DIVARICATÆ, articulis exiguis lineari-lanceolatis, valde spinosis, procumbentibus.*

O. (Greater Pin-pillow) *articulis fragilibus lineari-lanceolatis subdivaricatis, spinis difformibus, majoribus 3—10-linearibus.* *Cactus pusillus. Nobis in misc. nat. p. 189.* *pusilla.*
13.
*

HABITAT in America meridionali? S. h.

FLORET Jun.

INTROD. circa 1805.

OBS. *Caudex* compressus valde ramosus articulatus spinosus carnosus. *Rami* etiam articulati plurimi, oppositi et alterni; senecti divaricati. *Articuli* angustè sublanceolati compressi spinosi foliolosi virides. *Spinæ* difformes fasciculatæ; majores pauciores quam in affinibus, seu 1-2 vel 3, patulæ sive expansæ, ex albido flavicantes 3—10-lineares. *Foliola* ut in cæteris, sed magna ratione articularum magnitudinis, seu fere trilinearibus viridia. *Flores* (in horto Jun. 1796) superi numerosi, ramulos juniores terminantes, at solitarii, ut in Cacto Opuntiæ auctorum, cui simillimi atque lutei. *Calyx* quinquephyllus, foliolis valde inæqualibus, duobus exterioribus multoties majoribus oblongis obtusis cum mucrone carnosus, et ad latera altè membranaceis; tribus interioribus obcuneatis, margine ultimo tantum membranaceo. *Petala* circiter octo cuneato-oblonga perobtusata cum mucrone debili, foliolis exterioribus calycinis fere duplo longiora, integriuscula subdiaphana, ad solem pulchrè micantia. *Stamina* numerosa erecta valida fulva, basin versus pallidiora, foliolis majoribus calycinis aliquantulum breviora. *Antheræ* post

fœcundationem parvulæ albæ (juniores non vidi). Pollen luteum. Stylus validissimus teres erectus albidus, antheras paululum superans. Stigmata 3-4 itidem valida, et albida, incurvatim erecta.

curassa-
vica.

14.

O. (Pin-pillow) articulis fragilibus cylindrico-ventricosus compressis valde divaricatis. - *Opuntia (Curassavica) articulis cylindrico-ventricosus, compressis, spinis setaceis*. Mill. dict. ed. 8. no. 7.—*Cactus curassavicus*. Willd. sp. pl. p. 945.—*Hort. kew. ed. 2. v. 3. p. 179.*—*Opuntia minima americana spinosissima*. Brndl. succ. 1. p. 5. t. 4.

HABITAT in Curassao.

S. h.

FLORET Jun. Jul.

INTROD. 1690.

OBS. This is a very shy-flowering plant, and has only once attempted to blossom with me: but it has several times flowered with my brother in Yorkshire. Its branches are so extremely brittle that they break off at the joints on the slightest touch, adhering to the flesh or clothes of any person coming in contact with them; and create much pain and trouble to disengage, as their long sharp prickles are thickly and reversely barbed with invisible points. Miller says it is called Pin-Pillow in the West Indies, from the appearance which the plump branches have to a pincushion stuck full of pins.

I cultivate three varieties of the Pin-pillow, viz.

α. (major,) ramis spinisque majoribus, magisque divaricatis.

β. (media,) ramis spinisque paulo minoribus.

γ. (minor,) ramis duplo minoribus quam in

α.—junioribus fere inermibus purpurascen-
tibus.

EPIPHYLLUM. (Herm.) *Cactus* Linn. &c.

Corolla supera, polypetaloidea, rosacea, tubo longissimo fere pedali, flexuoso, parum squamato. *Stamina* ore tubi affixa, vel in tubum connata. *Stylus* longissimus. *Stigmata* 10-11.—*Character* ex Dillenii descriptione.—*Flores* perfectos non vidi.

E. (Spleen-wort-leav'd) proliferum læve ramo-
sum ensiformi-compressum, serrato-repan-
dum, costa centrali lignea.—*Cactus Phyllan-*
thus. Linn. *sp. pl.* 1. p. 670.—*Willd. sp.*
pl. 2. p. 946.—*Hort. kew. ed.* 2. v. 3. p. 180.
—*Cereus scolopendrifolio brachiato*. Dill.
elth. 73. t. 64. f. 74.—*Phyllanthos ameri-*
cana, sinuosis foliis longis. Pluk. *alm.* 296.
t. 247. f. 5.—*Opuntia (Phyllanthus) prolifer*
ensiformi-compressus serrato-repandus. Mill.
dict. ed. 8. no. 9.—*Ficus s. Opuntia non spinosa,*
scolopendriæfolio sinuato. Raj. *dendr.* 21.

HABITAT in Amer. merid.

S. h.

FLORET Jun.—Sept.

CULT. 1710.

OBS. *Cactus alatus* of Swartz is another species of this singular Genus, which there can be no doubt of being as natural as it is distinct.

PERESKIA. Miller. &c.—*Cactus* Linn. &c.
(Barbadoes Gooseberry.)

Flores paniculati. *Corolla* polypetaloidea rosacea, absque tubo. *Stamina* *Stylus* contortus. *Fructus* baccatus foliosus grossularinus. *Semina* pulpo nidulantia. *Character* ex

Dillenii descriptione. *Frutices* ramosi erecto-debiles. *Rami* præcipue senecti spinarum patentium fasciculis sparsim instructi, teretes. *Spinæ* primò intrafoliaceæ. *Flores* non vidi.

aculeata.

1.

P. (Short-spined) foliis ellipticis carnosis, spinis subinde semuncialibus, gemmis parum lanatis.—*Pereskia*. Linn. hort. cliff. 122.—*Pereskia (aculeata) aculeata*, flore albo, fructu flavescente. Plum. nov. gen. 37.—Dill. elth. p. 305. t. 227. f. 294.—Mill. dict. ed. 8.—*Cactus Pereskia*. Linn. sp. pl. 1. 671.—Willd. sp. pl. 2. p. 946.—Hort. kew. ed. 2. v. 3. p. 180.—*Portulacca americana latifolia ad foliorum ortum lanugine obducta, longioribus aculeis horrida*. Pluk. alm. 135. t. 215. f. 6.

HABITAT in Ind. occident.

S. h.

FLORET Oct. Nov.

CULT. 1696.

OBS. Miller informs us that “this plant grows in some parts of the Spanish West Indies, from whence it was brought to the English settlements in America, where it is called a Gooseberry, and by the Dutch it is called Blad Apple—that the fruit is about the size of a Wallnut, having tufts of small leaves on it, and hath a whitish mucilaginous pulp.” *Mill. dict. l. c.*

longispina.

2.

*

P. (Long-spined) foliis ellipticis carnosis, spinis subinde sesquiuncialibus, gemmis valde lanatis.

HABITAT in America meridionali ?

S. h.

FLORET

CULT. ante 1808.—Communicavit Dom. Gul. Anderson.

Obs. *Cactus Portulacæfolius* is another species of this Genus—it is said to be the size of a small Apple-tree, with flowers resembling the Dog-rose, and a green apple-shaped fruit. It has not yet, that I know of, been introduced into our gardens.

TRIGYNIA.

SESUVIUM. Gen. pl. 856.

Calyx 5-partitus, coloratus. *Petala* 0. *Cap-sula* ovata, trilocularis, circumscissa, polysperma.

S. (Purslane-leav'd)

Sesuvium Portulacastrum. Willd. sp. pl. 2. castrum. p. 1009.—Hort. kew. ed. 2. v. 3. p. 205.— 1.

Plant. grass. cum icone.—Portulacca patens. Bot. rep. 253. (quæ erronea citata est in Hort. kew. ed. 2. v. 3. p. 148.)

PENTAGYNIA.

TETRAGONIA. Gen. pl. 859.

Calyx superus, 4-5-partitus. *Corolla* nulla. *Pericarpium* nucleo 5—8-loculari. *Nobis in misc. nat. 117.*

* *SESSILES. Floribus axillaribus sessilibus.*

T. (Horned) suffrutescens, foliis ovato-rhombis, fructibus quadricornibus. *Nobis in misc. nat. 119.—Willd. sp. pl. 2. p. 1024.—Hort. kew. ed. 2. v. 3. p. 211.—Tetragonia Halimifolia. Forst. prod. p. 39.—T. Japonica. Thunb. fl. jap. 208.—Demidovia Tetragonides. Pallas hort. demidof. p. 150.* 1. *expansa.*

HABITAT in Nova Zeelandia—Insulis Amicorum—atque in Japonia. G. H. h.

FLORET Aug. Sept.

CULT. ante 1794.

*crystal-
lina.*

2.

T. (Crystalline) herbacea, pruinosa, foliis ovatis sessilibus; fructibus inermibus, infimis subpedunculatis, supremis sessilibus.—*Nobis in misc. nat. p. 120.*—*L'Herit. stirp. nov. p. 81. tab. 39.*—*Hort. kew. ed. 2. v. 3. p. 212.*—*Willd. sp. pl. 2. p. 1025.*—*Plant. grass. cum icone.*

HABITAT in Peru.

G. H. ☉.

FLORET Jun.—Aug.

INTROD. 1788.

** PEDUNCULATÆ. *Floribus semper pedunculatis.*

fruticosa.

3.

T. (Shrubby) fruticosa erecta, foliis elliptico-lanceolatis, fructibus obtusè 7-8-angulatis.—*T. fruticosa. Nobis in misc. nat. 120.*—*Willd. sp. pl. 2. p. 1023?*—*Evonymo affinis, africana flore luteo, Portulacæ folio. Seba. thes. 2. p. 13. t. 11. f. 8.*—*Tetragonocarpos; africana; fruticans; foliis longis et angustis. Boerh. ind. 278. 7.*—*Ind. alt. 2. 262. 1.*—*Commel. hort. amstel. 2. 205. t. 103.*

HABITAT ad Caput Bonæ Spei.

G. H. h.

FLORET Jul.—Sept.

CULT. 1712.

decumbens.

4.

T. (Trailing) suffruticosa, decumbens, pruinosa, foliis obovatis, pistillis duobus, fructibus alatis.—*T. decumbens. Nobis in misc. nat. p. 121.*—*Willd. sp. pl. 2. p. 1023.*—*Hort. kew. ed. 2. v. 3. p. 211.*—*Plant. grass. cum icone.*—*Tetragonocarpos afra, folio Portulacæ lon-*

go, flore herbaceo. Boerh. ind. alt. 2. 262. 3.

—Tetragonia β. Linn. hort. cliff. 188.

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Sept.

CULT. 1758.

T. (Wing-seeded) suffruticosa, procumbens, foliis sessilibus lanceolatis subdecurrentibus, pteris. alis druparum 8, alterne diminutis.—T. Tetra- 5.
trapteris. Nobis in misc. nat. p. 121.—Tetra- *
pteris frutex africanus Linariae folio crassiore,
fructu quadripinnato, quaternis membranaceis
extantibus alis, donato. Pluk. amalth. p. 200.
—Tetragonia α. Linn. hort. cliff. 188.—Te-
tragonocarpus; præcedenti similis; fructu ro-
tundo tetragono umbilicato. Boerh. ind. alt.
2. 262. 2.

HABITAT ad Caput Bonæ Spei.

G. H. h.

FLORET Jul.—Sept.

CULT. circa 1795.

T. (Spiked) glabra, subherbacea, erecta, foliis spicata. inferioribus ovatis, supremis lanceolatis gla- 6.
bris, floribus racemosis. Linn. supp. pl. 258.
—Thunb. prod. 87.—Gmel. syst. nat. f. 2.
843. 5.—Willd. sp. pl. 2. p. 1004.—Nobis
in misc. nat. p. 122.

HABITAT C. B. S.

G. H. h.

FLORET Jul.

INTROD. circa 1795.

T. (Tuberous-rooted) subherbacea, lævis, foliis herbaceu. ovatis petiolatis, fructibus alatis, radice stru- 7.
mosa.—T. herbacea. Nobis in misc. nat. p. 122.
—Willd. sp. pl. 2. p. 1023.—Hort. kew. ed. 2.
v. 3. p. 211.—Tetragonocarpus afri. radice
magna crassa et carnosa. Comm. hort. amst.
p. 201. t. 102.

HABITAT C. B. S.

G. H. ♀. s. 4.

FLORET Aug. Sept.

CULT. ante 1752.

echinata. T. (Hedge-hog) herbacea, foliis rhombeo-ovatis, fructibus echinatis. *Willd. sp. pl.* 2. p. 1024.—*Gmel. syst. nat.* 2. 843. 7.—*Hort. kew. ed.* 1. v. 2. p. 177.; et ed. 2. v. 3. p. 211.—*Nobis in misc. nat.* p. 123.

HABITAT C. B. S.

G. H. ☉. s. ♂.

FLORET Mai.—Aug.

INTROD. 1774.

MESEMBRYANTHEMUM. (Fig-Marygold.)

Gen. pl. 860.

Calyx 5-fidus. *Petala* numerosa, linearia, basi cohærentia. *Capsula* carnosa, infera, polysperma.

* SUBACAULIA. *Caulibus* nullis, vèl brevissimis, *radice* perenni.

† MINIMA; obconica, seu obcordata, foliis punctatis retusissimis, et connatis usque ad apices: floribus sessilibus, laciniis infernè plus minusve coalitis in tubum gracilem.

minu-
tum.

1.

*

M. (Small, dotted Dumplin) læve glaucum subimmaculatum, corollæ laciniis læte rubicundis, basi connatis in tubo prægracili, germine incluso.—*M. minutum*. *Nobis in misc. nat.* p. 21.—*Bot. magaz.* 1376.—*Hort. kew. ed.* 2. v. 3. p. 212.

HABITAT C. B. S.

G. H. 4.

FLORET Nov.—Jan.

INTROD. casualiter cum terra arenosa capense, inter *Stapelias* vivas, anno 1795.

OBS. Sæpe gerit maculas parvas distinctas punctiformes.

M. (Small chequer'd Dumplin) læve subglau- *mini-*
cescens, maculis confluentibus subramosis, *mum.*
corolla albicante, germine exerto.—*M. mini-* 2.
mum. Nobis in miscel. nat. p. 21.—Hort. *
kew. ed. 2. v. 3. p. 212.—Willd. sp. pl. 2.
p. 1032, sub sectione caulescente !

HABITAT C. B. S.

G. H. 4.

FLORET Oct.—Jan.

INTROD. ante 1776.—*secundum H. k. l. c.*

M. (Glaucous chequer'd Dumplin) glauces- *obcordel-*
cens, maculis confluentibus ramosis, corolla *lum.*
albicante, germine incluso.—*M. obcordellum.* 3.
Nobis in miscel. nat. p. 21.—Hort. kew. ed. 2. *
v. 3. p. 212.

HABITAT C. B. S.

G. H. 4.

FLORET Oct.—Jan.

INTROD. circa 1776.—*secundum H. kew. l. c.—*
at non vidi in Horto ipso ante 1794.

M. (Green, chequer'd Dumplin) virescens, ma- *obconel-*
culis confluentibus subtuberculiformibus, co- *lum.*
rolla alba, germine incluso.—*M. obconellum.* 4.
Nobis in miscel. nat. p. 21.—Hort. kew. ed. 2. *
v. 3. p. 212.

HABITAT C. B. S.

G. H. 4.

FLORET Oct.—Jan.

INTROD. circa 1786.—*secundum Hort. k. l. c.—*
at non vidi in ipso Horto ante 1794.

M. (Great, dotted Dumplin) subglaucum valde *trunca-*
depressum, maculis punctiformibus sub-di- *tellum.*
stinctis, corolla straminea, germine exerto.— 5.
M. truncatellum. Nobis in miscel. nat. p. 22. *
Hort. kew. ed. 2. v. 3. p. 213.

HABITAT C. B. S.

G. H. 4.

FLORET Oct.—Jan.

INTROD. 1795.

*fibulæ-
forme.*

6.

*

M. (Cloth-button) subcanescens, subpubescens, immaculatum, valde depressum.—*Nobis in miscel. nat. p. 22.*—*Hort. kew. ed. 2. v. 3. p. 213.*

HABITAT C. B. S.

G. H. 4.

FLORET....

INTROD. 1795.

OBS. All the species of the above division will live and flower in the Greenhouse, if kept on a shelf very near the sloping lights, and watered very sparingly, and at distant intervals in winter. All the dwarf species in the genus delight in a similar situation and treatment; but the woody ones require water as often as a horseshoe Geranium, and a great deal of air: indeed many of them will live in a common frame, if kept sufficiently dry, (with the lights off in all fair, and not frosty weather) and protected from frost by mats or litter occasionally; but dislike being hid from the light: a slight frost will not kill them.

If the species of the above section become too wet from drips, or otherwise, they speedily rot; unless taken out of the earth, and laid like bulbs in a shady part of the Greenhouse a few hours, or even days, to dry. They will live out even several months in winter without injury.

†† SPHÆROIDEA, *foliis connatis fere ad apices, absque punctis papulisve.*

*nucifor-
me.*

7.

*

M. (Nut-shaped) sphæroideum, glaucum, immaculatum, apicibus foliorum inæqualiter distinctis, supra planis.—*Nuciforme. Nobis in misc. nat. p. 22.*—*Hort. kew. ed. 2. v. 3. p. 213.*

HABITAT C. B. S.

G. H. 4.

FLORES non vidi.

INTROD. circa 1793.

††† SEMITERETIA, foliis subquatuor, decussatis, integerrimis, semiteretibus, obtusis, lævigatis; absque punctis papulisve; floribus sessilibus.

M. (Short white-leav'd) foliis albis subovatis, testicula-subtus convexis supra planis, flore sessili — re.

M. (albis corollis) testiculare; foliis quatuor decussatis supra planis. Hort. kew. ed. 1. v. 2. p. 181.; et ed. 2. v. 3. p. 214.—Nobis in miscel. nat. p. 24.—Willd. sp. pl. 2. p. 1026.—Variat. 8.

α. Corolla (alba?) foliis quatuor latioribus, magis expansis. Hort. kew. l. c.

FLORES non vidi.

β. Corolla lutea, foliis minoribus sæpe sex, erectioribus, angustioribus.

FLORET Nov.

γ. Corolla lutea, foliis quatuor longioribus, erectioribus.

FLORET Nov.

δ. Corolla rubicunda, foliis quatuor longioribus, erectioribus. Jacq. frag. p. 20. 73. t. 12. f. 2.

HABITAT C. B. S.

G. H. 4.

FLORES non vidi.

INTROD. 1774.

OBS. I possess the three first varieties, but am uncertain concerning the last, not having seen the flowers.

M. (Cloven White) foliis æqualibus semitere-fissum. tibis albis.—M. fissum. Nobis in miscel. nat. 9. p. 25.—Hort. kew. ed. 2. v. 3. p. 214. *

HABITAT C. B. S.

G. H. 4.

FLORES non vidi.

INTROD. 1776.

obtusum. M. (Cloven Green) foliis inæqualibus virescentibus semitereti-acinaciformibus obtusis; floribus subsessilibus, calycibus sexlaciniatis.—
 10. *Nobis in miscel. nat. p. 25.*—*Hort. kew. ed. 2. v. 3. p. 214.*
 *

HABITAT C. B. S.

G. H. 4.

FLORET Mar. April.

INTROD. 1792.

OBS. *Flores* (bis solum vidi) solitarios terminales, vix sessiles, A. M. expansos, basi bracteas duabus foliiformibus, magnos, facie ut in M. linguæforme, at laciniis revolutiusculis, longè angustioribus, acutis, emarginatisve, læte rubicundis, basi aliquantillum pallidioribus, plus uncialibus, atque distantioribus quam in plurimis. *Filamenta* erecta, alba, supernè tenuissime rubicunda. *Antheræ* etiam albæ, vel tenuiter flavicantes. *Styli* sex, sursum recurvi, albi, ramentacei. *Calyx* crassus, sexfidus, laciniis subæqualibus, obtusis; in flore aperto refractis, tertiâ secundâque laciniâ, ad latera plus minusve membranaceis.

†††† MONILIFORMIA, *decidua*, (*æstate aphylla*) caudicibus brevissimis moniliformibus: foliis duobus primoribus (seu stipulis) connatis fere ad apices, duobus sequentibus (seu foliis propriis) elongatis, basi conjunctis, marcescenti-deciduis; calycibus foliisve chrySTALLINIS.

pisiforme. M. (Pea-shaped) foliis papuloso-chrySTALLINIS, primoribus connato-pisiformibus s. sphæroidis, sequentibus semiteretibus, caudice ra-

11.

*

mosissimo suberoso, unciali.—*M. pisiforme.*

Nobis in miscel. nat. p. 23.

HABITAT C. B. S. G. H. 4. s. 2.

FLORES non vidi.

INTROD. ante 1796.

OBS. I am afraid this most extraordinary and most distinct species is totally lost to our gardens. I first found it in the collection of the Earl of Tankerville.

M. (Necklace) foliis primoribus connato-sphæroideis, sequentibus semiteretibus subulatis forme longissimis recurvantibus.—Nobis in miscel. 12.

*nat. p. 24.—Hort. kew. ed. 2. v. 3. p. 213. **

HABITAT C. B. S. G. H. 2.

FLORET Apr.

INTROD. ante 1791.

OBS. Flores niveos, ter solum produxi.

++++ SUBULATA. *Acaulia, foliis semiteretibus subulatis viridibus absque papulis, supernè triquetris; floribus pedunculatis rubicundis.*

M. (Great Awl-leav'd) acaule, foliis subulatis acutum. acutis viridibus, apice triquetris, corolla rubicunda.—M. acutum. Nobis in miscel. nat. 13.

*p. 26.—Hort. kew. ed. 2. v. 3. p. 215. **

HABITAT C. B. S. G. H. 4.

FLORET Nov.—et Apr. A. M.

INTROD. ante 1793.

M. (Daisy-flower'd) foliis viridibus triquetris Bellidi-apice trifariam denticulatis.—Mesemb. acaule, florum. foliis triquetris linearibus impunctatis apice trifariam dentatis. Linn. sp. pl. 690.—Willd. 14.

sp. pl. tom. 2. p. 1029.—Hort. kew. ed. 2. v. 3. p. 217.—Nobis in misc. nat. p. 30.—

Dillen. elth. 224. f. 233.—Bradl. succ. 2. p. 9. f. 18.

HABITAT C. B. S.

G. H. 4.

FLORET Oct.—Dec.

CULT. 1717.

OBS. An recte hujus divisionis ?

subula-
tum.

15.

†

M. (Pale Daisy-flower'd) acaule, foliis subulatis triquetris dorso supernè serratis.—*M. subulatum. Mill. dict. ed. 8. no. 10.—M. Bellidiflorum B. simplex, foliis latere infero tantum apice dentatis. Plant. grass. cum icone.*

HABITAT ad Caput Bonæ Spei.

G. H. 4.

FLORET

CULT. 1768.

OBS. Nondum vidi.

+++++ CALAMIFORMIA. *Acaulia, subacauliave, foliis teretiusculis, seu calamiformibus, absque papulis.*

calami-
forme.

16.

M. (Quill-shap'd) foliis subulatis teretiusculis glaucescentibus punctulatis basi supra planis, floribus octogynis.—*M. calamiforme Linn. sp. pl. 690.—Willd. sp. pl. 2. p. 1031.—Hort. kew. ed. 2. v. 3. p. 215.—Nobis in miscel. nat. p. 26.—Plant. grass. cum icone.—Dill. elth. 1. 186. f. 228.—Ficoides capensis humilis cæpifolio flore stramineo. Bradl. succ. 2. p. 10. f. 19.*

HABITAT C. B. S.

G. H. 4.

FLORET Jul.—Sept.

CULT. 1717.

obsubu-
latum.

17.

*

M. (Reverse-quill'd) acaule, foliis obsubulatis, seu subclavatis crassis teretiusculis punctulatis virescentibus obtusis. *Nobis in miscel. nat. p. 27.*

HABITAT C. B. S.

G. H. 2.

FLORES non vidi.

INTROD. circa 1796.

M. (Turgid-quill) foliis triquetro-teretibus *teretius-*
fartis percrassis virescentibus punctatis biun- *culum.*
cialibus. *Nobis in miscel. nat. p. 27.—Hort.* 18.
kew. ed. 2. v. 3. p. 215.—M. punctatum. *
Nobis mesemb. append. 2. p. 411.

HABITAT C. B. S.

G. H. 2.

FLORES non vidi.

INTROD. ante 1794.

M. (Cylindric-quill) foliis triquetro-cylindricis *cylindri-*
glaucis punctatis triuncialibus, junioribus *cum.*
glaucioribus subinde triquetris; cauliculo se- 19.
necto biunciali confertim ramoso.—*M. cy-* *
lindricum a. Nobis in misc. nat. p. 27.—
M. cylindricum. Hort. kew. ed. 2. v. 3.
p. 215.

HABITAT C. B. S.

G. H. 2.

FLORET Sept. et Feb. A. M.

INTROD. ante 1794.

Obs. Flores terminales solitarii. *Pedunculi*
1-2-unciales subgraciles inferne compressi, su-
perne teretes, medio vel supra medium bibrac-
teati. *Bractea* magnæ foliiformes florem su-
perantes. *Calyx* inæqualiter quadrifidus, la-
ciniis foliiformibus, duabus fere triplo-mino-
ribus basi altè membranaceis, omnibus ob-
tusissimis teretibus, at parum subulatis. *Co-*
rolla laciniis numerosis imbricatis obtusis in-
tegris, altitudine laciniarum maximarum ca-
lycis, saturatissime rubicundis, nitidissimis.
Filamenta numerosa rosea, corolla breviora.
Anthera fusca. *Pollen* album. *Styli* de-

cem ad duodecim, breves exigui, demum patuli, albo-virides parabolico-acuminati.

Obs. Post florescentiam, corollæ laciniæ persistentes exsiccatae, styli longi flexo-expansi apice recurvi subalbi ramentacei.

teretifolium.

20.

*

M. (Round-quill) foliis quadriuncialibus subpunctatis virescentibus, cylindricis teretiusculisve, junioribus politis perviridibus semiteretibus; caulibus senectis semipedalibus, cortice lævigato.—*M. cylindricum* β. *Nobis in miscel. nat. p. 27.*

HABITAT C. B. S.

G. H. h. s. 4.

FLORET Sept. et Ap. A. M.

INTROD. ante 1794.

Obs. *Flores* primo terminales solitarii magni, in ramis procumbentibus crassis sub-dodrantalibus. *Pedunculi* biunciales flexi teretiusculi superne vel infra medium bibracteati. *Bracteæ* foliiformes. *Calyx* quadrifidus laciniis crassis inæqualibus foliiformibus, duabus minoribus altè membranaceis. *Corolla* formosa laciniis numerosis imbricatis latiusculis, sæpe emarginatis, saturate rubicundis, basi albis. *Filamenta* pallida. *Antheræ* sæpe purpurascens. *Germen* viride. *Styli* circiter duodecim albi, in senecto flore recurvatim stellati, sublanceolati cuspidati.

Obs. This and the two last may perhaps not be specifically distinct. The leaves of *teretiusculum* are the shortest; those of *cylindricum* are thicker and more glaucous, and less cylindric than in *teretifolium*, which last has also by far the longest and smoothest stems.

M. (Finger-leav'd) subacaule, foliis alternis *te-digita-*
retibus obtusis, floribus axillaribus sessilibus. *tum.*

Hort. kew. ed. 1. v. 2. p. 181.; et ed. 2. 21.

v. 3. p. 215.—Nobis in misc. nat. p. 27.— †

Willd. sp. pl. 2. p. 1031.

HABITAT C. B. S.

G. H. η .

FLORET

INTROD. 1775.

OBS. Nondum vidi. An ritè hujus divisionis ?

†††††††† ROSTRATA. *Acaulia seu subacaulia,*
foliis 4—6 suberectis glaucis, puncta-
tis absque papulis, semiteretibus,
apice triquetris; floribus luteis.

M. (robust Beak'd) foliis subulatis obtusis *robust-*
punctatis, basi interiore pustulato-gibbosis, *tum.*

caule robusto ramuloso. *Nobis in miscel. 22.*

*nat. p. 28.—Hort. kew. ed. 2. v. 3. p. 216. **

HABITAT C. B. S.

G. H. η .

FLORES non vidi.

INTROD. 1795.

M. (Compact) acaule, foliis connatis punctatis *compact-*
semiteretibus apice triquetris subreflexis *acu-*
tis, floribus sessilibus, calyce subcylindraco 23.

sexfido: corollis luteis. *Hort. kew. ed. 1. †*

v. 2. p. 191; et ed. 2. v. 3. p. 214.—Nobis in

misc. nat. p. 25.

HABITAT C. B. S.

G. H. γ . seu η .

FLORET Nov.

INTROD. 1780.

OBS. Not having yet met with *M. compactum*,
either at Kew or any where else, and finding
that the above character of it agrees pretty
well with my description of *M. robustum*, I
am inclined to think they may be the same;

although I have not seen the flowers of the latter, which would decide the matter. Even the location of *M. compactum* in Hort. Kew. page 191, immediately following its closest ally in that work, *M. rostratum*, ought very strongly to favour such an idea, did we not see a few pages before the flat-leav'd *M. expansum* placed between *M. umbellatum* and *M. testiculare*; from both of which *M. expansum* recedes as far as possible. Many years ago, when Mr. Donn of Cambridge saw a plant of *M. canum* (a species somewhat like *M. robustum*) with me, he said he thought it was *M. compactum* of Kew Garden; in this however he was mistaken, as the descriptions will clearly shew; but his idea of *M. compactum* helps also to shew that it may be the same as *M. robustum*, or at least that it greatly resembles that species. It is impossible now to clear up this point.

- quadrifidum*. M. (quadrifid Beak'd) subacaule, foliis subulatis obtusis glaucis, punctis rarissimis, calyce quadrifido. *Nobis in misc. nat. p. 28.*
 24. * *Hort. kew. ed. 2. v. 3. p. 216.*

HABITAT C. B. S.

G. H. 4. s. 1.

FLORET NOV.

INTROD. 1795.

OB3. Præcedenti simile sed minus, foliis obtusioribus minusque punctatis. *Miscel. nat. l. c.*

- bifidum*. M. (bifid Beak'd) subacaule, foliis subulatis glaucis obtusis multi-punctatis, calyce 2—4-fido.—*M. bifidum. Nobis in misc. nat. p. 29.*—*Hort. kew. ed. 2. v. 3. p. 216*

HABITAT C. B. S.

G. H. 4.

FLORET Mar. et Nov.

CULT. 1795.

OBS. Flores duos solum vidi, alterum descriptum in *Miscel. nat. l. c.*—alterum in horto, Mar. 1807, *calyce* quadrifido, laciniis duabus exterioribus maximis foliiformibus punctatis, alterâ mucronatâ; interioribus duabus longissime brevioribus et fere omnino membranaceis flaccidisque: *petalis* luteis A. M. expansis, sublongitudine laciniarum exteriorum calycis: *staminibus* brevioribus quam laciniarum interiorum calycis, non convergentibus: *antheris* albicantibus *stylis* superantibus: *stylis* circiter novem robustis obtusis incurvantibus ramentaceis.

M. (double-bracted Beak) subacaule, ramo- *libracte-*
sum, foliis elongatis subulatis semiteretibus *atum.*
punctatis perglaucis; bracteis quatuor decus- 26.
satis scapo brevioribus. *

HABITAT C. B. S.

G. H. 4. s. 1.

FLORET Apr. et Nov.

INTROD. circa 1803.

Communicavit Dom. Ross.

OBS. M. rostrato simillimum, at paulo robustius, *caule* senecto unciali ramoso præcedentium. *Folia* glauciora quam in M. rostrato, punctis paucioribus majoribus. *Scapus* altior, seu 4-5-uncialis, *bracteis* scapo semper multo brevioribus, nec longioribus ut in M. rostrato. Præterea *calyx* sæpissime 5- nec semper 4-fidus. *Petala* lutea, vespere clausa, graciliora longioraque quam in illo. Demum *stamina* longiora non abscondita. Denique *styli* decem nec octo, longitudine filamentis.

rum (post florescentiam filamentis multo longiores) subulati erecti, valde ramentacei, apicibus patulis, nec brevissimi, arctèque incurvi ut in *M. rostrato*.

rostratum.

27.

M. (Heron-beak'd) acaule foliis elongatis subulatis semiteretibus acutis glaucis præpunctatis; bracteis duabus scapo longioribus.—*M. rostratum.* Willd. *sp. pl.* 2. 1027.—*Hort. kew. ed.* 2. v. 3. p. 217.—*Nobis in misc. nat.* p. 29.—*M. (tuberculatum)* acaule foliis semicylindricis connatis externe tuberculatis. *Mill. dict. ed.* 8. no. 32.—*M. (rostratum)* acaule, foliis semicylindricis connatis externe tuberculatis. *Mill. dict. ed.* 8. no. 40. *excluso synonymo Martyni, quod ad M. felinum pertinet.*—*M. rostratum* rostrum ardeæ refert. *Dill. elth.* 240. f. 229. *sine flore.*

HABITAT C. B. S.

G. H. 4.

FLORET fine Apr.

CULT. 1732.

OBS. *Folia* fere radicalia, decussata altè connata semi-cylindrica, supernè triquetra; juniora punctis subprominentibus, et ad angulorum apices scabra. *Floret* tandem sæpius. *Scapi* solitarii primo fere terminales, deinde vero axillares teretes virescentes rugulosi triunciales; superne vix manifestè incrassati; basi bibracteati. *Bracteæ* folia omnino simulant, et similariter altè connatæ, scapos semper superantes. *Calyx* subglobularis quadrifidus, laciniis duabus exterioribus foliiformibus patulis circiter altitudinem petalorum; duabus interioribus multoties minoribus, et ad latera valde membranaceis, apicibus ipsis solum foliaceis. *Petala* lutea et per diem supernè re-

curvantia, infernè arctè erecta, subulata, brev-
via et latiuscula in hoc genere, ad solem pul-
chrè splendentia. *Stamina* obcondita brev-
convergentia alba. *Antheræ* pallidæ. *Styli*
perbreves sed crassi, arctè incurvi, *filamentis*
longe breviores, marginibus aliquantulum ra-
mentaceis. *Germen* non examinavi.

M. (small Heron-beak'd) foliis subulatis obtu- *ramulo-*
sis punctatis, basi interne pustulato-gibbosis, *sum.*
senioribus expansis, caule triunciali prostrato 28.
ramoso.—*M. ramulosum.* *Nobis in miscel.* *
nat. p. 29.—Hort. kew. ed. 2. v. 3. p. 217.

HABITAT C. B. S.

G. H. 2.

FLORET Mar. et Nov. A. M.

INTROD. 1791.

OBS. *Styli* novem, filamentorum altitudine
post fœcundationem, superne revoluti, inter-
ne ramentacci.

M. (tooth Beak'd) foliis subulato-triquetris *denticu-*
compressis perglaucis, apice subtus dilatato- *latum.*
carinatis sæpeque denticulatis. *Nobis in* 29.
miscel. nat. p. 30.—Hort. kew. ed. 2. v. 3. *
p. 217.

HABITAT C. B. S.

G. H. 4.

FLORET Apr. P. M.

INTROD. 1793.

OBS. Paulo variat.

α. *M. denticulatum*, canum. *Misc. nat. l. c.*

β. *M. denticulatum*, glaucum. *Misc. nat. l. c.*

OBS. Floret fine Apr.—Merid. et Pomerid. *Flo-*
rem solitarium solum vidi. *Scapus* primo ter-
minalis mox lateralis, trientalis et ultra, basi
ipso *bracteis* duabus foliiformibus bidenticu-
latis. *Calyx* quinquefidus, laciniis longè pa-
rabolicis, magis æqualibus quam in plurimis,

tribus plus minus membranaceis. *Corolla* triuncialis, laciniis angustis acutis, vel rarius apice bifidis, pallide stramineis, at basin versus altè niveis, extus supernè pallidissimè roseis, nitidissimis præcipue internè. *Stamina* numerosa expansa nivea trilinearia, exteriora erecto-patula; interiora conferta. *Antheræ* straminæ non nitentes. *Styli* circiter 15, breves subulati ramentacei, intra filamenta omnino reconditi, conniventes luteo-virides. *Germen* non examinavi.

γ. *M. denticulatum* candidissimum.—*Misc. nat. l. c.*

+++++ RINGENTIA. *Foliis triquetris supernè sensim incrassatis, sive gibbosis, (excepto penultimo) ciliato-dentatis (2-3 exceptis) absque papulis punctisve; floribus luteis, pomeridianis.*

tigrinum. M. (Tyger-chap) acaule, foliis glaucescentibus albo-maculatis rarius tuberculatis, marginibus profunde ciliatis. *Nobis in miscel. nat. p. 31.*
 30. —*Hort. kew. ed. 2. v. 3. p. 218.*—*Willd. sp. pl. tom. 2. p. 1029.*
 *
 HABITAT C. B. S. G. H. 4.
 FLORET Nov. P. M.
 INTROD. circa 1790.

felinum. M. (Cat-chap) acaule, foliis glaucescentibus, marginibus ciliato-dentatis, apicibus cartilagineis. *Nobis in misc. nat. p. 31.*—*Willd. sp. pl. 2. p. 1023.*—*Hort. kew. ed. 2. v. 3. p. 218.*—*Mart. cant. 30. 6. 30.*—*M. rictum felinum representans. Dill. elth. 240. f. 220.*
 31. HABITAT C. B. S. G. H. 4.
 *

FLORET Nov. P. M.

CULT. 1730.

M. (Mouse-chap) subacaule, foliis glaucis *muri-*
punctatis trifariam ciliato-denticulatis. *Nobis num.*
in misc. nat. p. 30.—Hort. kew. ed. 2. v. 3. 32.
p. 217.—Willd. sp. pl. 2. p. 1029. *

HABITAT C. B. S.

G. H. h.

FLORET Sept: P. M.

INTROD. circa 1790.

OBS. Styli 5 brevissimi erecti virides apicem
versus paulo incrassati.

M. (Dog-chap) subacaule, foliis impunctatis *caninum.*
glaucis, apicem versus bracteisque denticu- 33.
latis incurvantibus; pedunculis longitudine
foliorum.—*M. caninum, a. Nobis in misc.*
nat. p. 31.—M. ringens, a; caninum. Linn.
sp. pl. 698.—Willd. sp. pl. 2. p. 1023.—
Plant. grass. cum icone.—Hort. kew. ed. 2.
v. 3. p. 218.—M. rictum caninum referens.
Dill. elth. 241. f. 231.—Ficoides capensis
humilis, folio triangulari prope summitatem
dentato, flore luteo. Bradl. succ. f. 17.

HABITAT C. B. S.

G. H. h.

FLORET Aug.—Oct. P. M.

CULT. 1717.

OBS. The flowers of this fine species expand in
the afternoon, and close again about the hour
those of *M. dolabriforme* begin to open;
which last are remarkable for closing when
the flowers of the fragrant *M. noctiflorum* and
its allies commence their expansion for the
night, *Misc. nat. l. c.*

M. (Fox-chap) subacaule, foliis impunctatis *vulpi-*
glaucis apicem versus grandidentatis inte- *num.*
grisve, senectis horizontalibus, bracteis in- 34.
*

Icosandria Pentag. Mesembryanthemum.

tegris, pedunculis folio longioribus.—*M. caninum* β. *Vulpinum*. *Nobis in misc. nat.* p. 32.

HABITAT C. B. S.

G. H. h.

FLORET Aug.—Oct. P. M.

INTROD. circa 1795.

OBS. Præcedenti simillimum at elatius, foliis longioribus gracilioribus magis expansis, et aliquantillum viridioribus, dentibus paucioribus.

hybridum.

35.

*

M. (Bastard) foliis perglaucis semiteretibus integris supernè incrassatis, carinatis, mucronulo recurvo.

G. H. γ.

OBS. Casualiter hybridum, inter *M. caninum* et *M. albidum*, a seminibus *M. albidum*, ortum, in horto amici Dom. Howard, qui communicavit circa 1808. *Folia* primi anni sæpius dente uno alterove instructa, sequentia omnino integerrima. *Flores* non vidi.—*M. vulpino* simillimum, at magis album, et absque dentibus—*M. albedo* minus simile; nempe folia minus alba, et supernè nec infernè, gradatim incrassata.

albidum. M. (White) foliis subulatis triquetris peralbis: basi semiteretibus; apice obtusis cum mucrone.—*M. albidum*. *Willd. sp. pl.* 2. p. 1029. —*Hort. kew. ed.* 2. v. 3. p. 216.—*Mesembr. foliis robustis albicantibus*. *Dill. elih. t.* 189. f. 232.—*Ficoides afra folio triangulari ensiformi, glauco crasso, flore amplo aureo*. *Bradl. succ.* 1. 43.

36.

HABITAT C. B. S.

G. H. γ.

FLORET Jul. Aug.

CULT. 1714.

M. (Hoary) foliis subcanescentibus triquetris, *canum*.
compressis basi attenuatis, apicem versus 37.
gibboso-carinatis. *Nobis in misc. nat. p. 25.* *

HABITAT C. B. S. G. H. 4.

INTROD. 1795.

FLORES non vidi.

+++++ DOLABRIFORMIA. *Foliis decussatis dolabrimor-*
tis dolabrimoribus, caule fruticu-
loso, floribus luteis pomeridianis
seu vespertinis.

M. (Hatchet-leav'd) subcaulescens, foliis dola- *dolabri-*
briformibus, triquetrisve carina apicem versus *forme.*
valde dilatata.—*M. dolabrimor.* Willd. sp. 38.
pl. 2. p. 1030.—Hort. kew. ed. 2. v. 3.
p. 221.—Nobis in misc. nat. p. 37.—Curt.
bot. magaz. f. 32.—Plant. grass. cum icone.
—Mesemb. folio dolabrimor. Dill. elth.
t. 191. f. 237.

HABITAT C. B. S. G. H. 4.

FLORET Mai.—Nov. P. M. seu vespere.

CULT. 1705.

β. Paulo minus omni parte, foliis certe minus
gibbosis.

OBS. The stature of this anomalous species, and
colour of its flowers, and the period of their
expansion, should seem to fix its place in the
genus between the RINGENTIA and LINGUÆ-
FORMIA.

+++++ LINGUÆFORMIA. *Foliis plus mi-*
nusve linguæformibus mollibus,
lucidis, supra planis, subtus con-
veris, apicem versus sæpius oblique
gibbosis, uncinatisve: floribus soli-
tariis magnis lucide luteis, petalis
in hoc genere latissimis.

+ DISTICHA, foliis distichis.

scalpratum. M. (Great-tongue) prostratum, foliis declivissimis scalpratiformibus latissimis altero margine crassiori, basi intus cartilagineo-gibbosis, calycibus glaberrimis sessilibus, petalis apice crenulatis. *Nobis in misc. nat. p. 32.—Hort. kew. ed. 2. v. 3. p. 218.—M. linguæforme, a. Willd. sp. pl. 2. p. 1026.—Mesemb. folio scalprato. Dill. elth. 235. f. 224.*

39.

*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.—Nov.

CULT. 1714.

latum. M. (Broad-tongue) prostratum, foliis latè linguæformibus obtusissimis perviridibus humi depressis, floribus subsessilibus. *Nobis in misc. nat. p. 32.—Willd. sp. pl. 2. p. 1026, excluso synonymo Boerhavi.—Hort. kew. ed. 2. v. 3. p. 219.—Mesemb. folio linguæforme latiore. Dill. elth. 236. f. 225?*

40.

*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.—Nov. A.M.

CULT. 1732.

adscendens. M. (ascending Broad-tongue) adscendens, foliis latè linguæformibus obtusissimis viridibus adscendentibus, floribus pedunculatis.

41.

*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.—Nov.

CULT. ante 1805.

OBS. The leaves are more ascending, and paler than in the last, and the peduncles longer.

OBS. If the next species but three is not the *M. folio linguiformi longiore* of Dillenius, this may be it: but if so, he has delineated the leaves too long.

M. (Depressed Tongue) prostratum, foliis linguæformibus obtusis revoluto-depressis pallide viridibus, apice varie incurvis.—*M. depressum. Nobis in misc. nat. p. 33.—Hort. kew. ed. 2. v. 3. p. 218.—M. folio linguiformi angustiore. Dill. elth. 237. f. 226.*

42.

*

HABITAT C. B. S.

G. H. 4.

FLORET Sept.—Nov. at rarissimè.

CULT. 1795.

Obs. I am now satisfied the above synonym of Dillenius belongs to the present, and not the following article.

M. (rufescent Tongue) prostratum, foliis linguæformibus obtusis arctissime imbricatis, planis subdeclivis rufescentibus, quasi subundulatis, apice varie incurvis.

43.

*

HABITAT C. B. S?

G. H. 4.

FLORET....

CULT. ante 1804.

Obs. Præcedenti simillimum, at rufescens, foliis planis humi depressis; sed non recurvis vel revolutis. Rarissimè floret, et fere sterile.—Communicavit Dom. Howard.

M. (common Tongue) adscendens, foliis inæqualiter linguæformibus adscendentibus, per viridibus subinde carinatis. *Nobis in misc. nat. p. 33.—Hort. kew. ed. 2. v. 3. p. 218.—M. obliquum. Willd. sp. pl. 2. p. 1027.*

44.

HABITAT C. B. S.

G. H. 4.

FLORET Nov.—Mar. A. M.

CULT. 1732.

M. (long Tongue) subprostratum, foliis linguæformibus longissimis declivis, pedunculis calyce longioribus, petalis acutis. *Nobis in misc. nat. p. 34.—Willd. sp. pl. 2. p. 1027.*

45.

*

Icosandria Pentag. Mesembryanthemum.

—*Hort. kew. ed. 2. v. 3. p. 219.*—*Plant. grass. cum icone?*—*M. folio linguæformi longiore. Dill. elth. 238. f. 227?*—*Ficoides afric. acaulos, foliis latissimis crassissimis, lucidis, conjugatis, brevioribus flore, aureo amplo, Pedunculo brevi. Bradt. succ. tab. 24?*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.—Oct. A. M.

CULT. 1725.

β. (flaccidum) foliis linguæformibus longissimis flaccidis, humi reclinatis seu fere adpressis declivis, pedunculo calyce longiore.

OBS. Folia longiora, et certe flaccidiora, quam in præcedentibus.

OBS. 2. This species has its leaves with one edge pointing more to the ground, and the other more ascending than usual in this subdivision, except in *M. scalpratum*, whose edges are nearly perpendicular with the horizon, in old woody plants.

angustum.

M. (narrow Tongue) foliis lineari-linguæformibus semicylindricis longissimis. Nobis in misc. nat. p. 34.—Hort. kew. ed. 2. v. 3. p. 220.

46.

*

HABITAT C. B. S.

G. H. 4. s. h.

FLORET Mar. et Oct. A. M.

INTROD. circa 1790.

++ CRUCIATA foliis longissimis, rarius exacte, sed sæpius oblique cruciatis mollissimis, corollis magnis lucide luteis.

præpingue.

M. (Soft-tongue) foliis linguæformibus mollissimis, junioribus ciliato-pubescentibus, apice incurvis, caule senecto semipedali procumbente crasso.—M. præpingue. Nobis in

47.

*

misc. nat. p. 35.—*Hort. kew. ed. 2. v. 3. p. 220.*—*M. heterophyllum. Bot. rep. v. 8. 540?*

HABITAT C. B. S.

G. H. 4.

FLORET Aug.—Oct. A. M.

INTROD. 1792.

OBS. The second edition of *Hortus Kewensis* cites the above figure of *Bot. repos.* (described I believe by the late Mr. Geo. Jackson) for this species, but it rather belongs to the last, and has nothing to do with my *M. heterophyllum*; which indeed is not even hinted at by the writer, lest his pirated account from my *Miscellanea* (p. 101, &c.), of the opening and closing of the ripe capsules of *Mesembryanthema*, and the consequent providential distribution of their seeds, should be exposed. This is like Mr. J.'s asking and obtaining the favour of my telling him where the rare *Agrostis littoralis* grew wild, (at a time when I was the only person who knew a habitat for it;) and soon after giving it to Kew garden, (where it was shown *me* for a rarity,) as a discovery of his own; and also to Sowerby, who figured it in *English Botany*, as a *discovery* of Mr. J.'s; notwithstanding I had given specimens, and even a written new specific character of it to Sowerby himself, above a year before! Not so Mr. Knapp, who, wanting it for his large work on *British Grasses*, also applied to me for its place of growth; where he found it; and has becomingly acknowledged who enabled him to do so.

*tauri-
num.*

48.

*

M. (Bull's-horn) foliis bifariis oblique cruciatis semiteretibus obtusis crassissimis lutescente-viridibus incurvatis: caudice basi ramoso semipedali.

HABITAT C. B. S.

G. H. h.

FLORET Sept.—Nov.

INTROD. circa 1795.

OBS. Facies M. cruciati, at longè majus. *Folia* minus cruciata, pallidiora, et certo situ quasi pallido-maculata, sæpe subdigitiformia, et fere magnitudine digiti, at supra magis plana; apicibus sæpe obliquis; juniora semper incurva et cornua taurorum simulantia. *Flos* luteus sessilis. *Calyx* verè bifidus! laciniis inæqualiter membranaceis, carinatisque, membranæ plus minusve exustis. *Styli* octo ramentacci. Cætera ut in affinibus.

Communicavit amicus Dom. Howard.

*crucia-
tum.*

49.

*

M. (Cruciate-tongue) foliis lineari-linguæformibus semicylindricis mollissimis cruciatis, caule senecto trientali.—*M. cruciatum. Nobis in misc. nat. p. 35.—Hort. kew. ed. 2. v. 3. p. 220.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Nov.

INTROD. 1792.

OBS. According to the second edition of the Hortus Kewensis, this species was introduced into the English gardens in 1792. But as it has been a very old inhabitant of Chelsea Physic Garden, I conceive its introduction must have been much earlier: and as it is described by Boerhaave, it was probably sent by him to Miller above half a century since.

M. (Deform'd-tongue) foliis lineari-linguæformibus semicylindricis oblique cruciatis, apicibus deformibus, caule senecto ramoso semipedali.—*M. difforme. Willd. sp. pl. 2. p. 1031.—Hort. kew. ed. 2. v. 3. p. 220.—Nobis in misc. nat. p. 35.—M. foliis difformibus, flore luteo. Dill. elth. 25. f. 242; nec 241, quæ ad M. semicylindricum pertinet, cum synonymo Pluknetiano.*

HABITAT C. B. S.

G. H. ½.

FLORET Mai.—Nov. A. M.

CULT. ante 1732.

M. (Semicylindric-tongue) foliis semiteretibus, apicem versus obliquis et uno alterove dente munitis, caule ramoso adscendente semipedali.—*M. semicylindricum. Nobis in misc. nat. p. 36.—Hort. kew. ed. 2. v. 3. p. 220.—M. foliis difformibus flore luteo. Dill. elth. 252. f. 241, nec 242, quæ ad ultimum pertinet.—Pluk. mantiss. t. 325. f. 4.*

HABITAT C. B. S.

G. H. ½.

FLORET Mai.—Nov.

CULT. ante 1732.

M. (Various-leav'd) acaule, foliis viridibus impunctatis difformibus, superioribus longioribus.—*heterophyllum. Nobis in misc. nat. p. 36.*

HABITAT C. B. S.

G. H. ¼.

FLORES non vidi.

INTROD. 1795.

OBS. Singularis est et distinctissima species. *Folia* robusta difformia; inferiora ut in *M. cano*, superiora fere ut in *M. difforme*, at minora. *Misc. nat. l. c.*

↑↑↑↑↑↑↑↑↑↑ GIBBOSA. *Foliis difformibus prægrossis uncialibus oppositis sæpius lucidis fere ad medium conutis, uno gibboso abbreviato, altero apice peraucto et obliquo: calycibus sæpe sexfidis: corollis rubicundis parvulis hyemalibus, seu primo vere.*

*gibb-
sum.*

53.

*

M. (short Gibbous) subacaule, foliis lutescenteviridibus patentibus ovatis semicylindricis, apice rarissime carinatis. *Nobis in misc. nat. p. 36.—Hort. kew. ed. 2. v. 3. p. 221.*

HABITAT C. B. S.

G. H. 4.

FLORET Jan.—Apr.

INTROD. ante 1780.

*luteo-
viride.*

54.

*

M. (yellow-green Gibbous) cauliculo prostrato debili 2-3-unciali, foliis oblongis semicylindricis supernè triquetris luteo-viridibus.—*Mesemb. (perviride) β. Caule senecto biunciali, foliis majoribus longioribusque, luteo-viridibus. Nobis in misc. nat. p. 37.*

OB3. *Flores* terminales sessiles solitarii. *Calyx* basi anceps, sexfidus, laciniis duabus exterioribus majoribus carinatis obtusis; cæteris planis subovatis retusis, membranis purpurascens circumactis. *Corolla* fere ut in *M. perviride*, petalis numerosis, basi aliquantulum imbricatis latiusculis, seu cuneato-linearibus, sæpe emarginatis, pallide rubicundis, costâ saturatiore, lateribus basi albicantibus. *Filamenta* alba expansa, petalis fere triplo breviora. *Antheræ* sulphurascens. *Styli* sex valde ramentacei, demum patentes at brevissimi, et filamentis multo breviores.

HABITAT C. B. S.

G. H. γ . s. η .

FLORET Jan.

INTROD. circa 1795.

M. (dark-green Gibbous) cauliculo prostrato *perviride* debili 3-4-unciali, foliis subovatis vel semi-*de*. cylindrico-triquetris perviridibus. M. (*perviride*) subacaule, foliis oblongis semicylindrico-triquetris, caule brevi prostrato. Nobis in misc. nat. p. 37.—Hort. kew. ed. 2. v. 3. p. 221. 55. *

HABITAT C. B. S.

G. H. γ . seu potius η .

FLORET Jan.—Mar.

INTROD. 1792.

OBS. *Folia* breviora et forte crassiora quam in præcedente.

M. (downy Gibbous) cauliculo senecto triunciali debili prostrato, foliis semicylindricis *pubescenti-canis*, apicibus obliquis.—M. *pubescens*. Nobis in misc. nat. p. 37.—Hort. kew. ed. 2. v. 3. p. 221. 56. *

OBS. Præcedenti simillimum. *Folia* canescentia, sive potius sericea, oculo armato pubescentia.

HABITAT C. B. S.

G. H. γ . vel potius η .

FLORES non vidi.

INTROD. 1792.

** CAPITATA. *Foliis imbricato-capitatis densissimis alternis longissimis absque papulis punctisve; caudice erecto demum decumbente; petalis angustissimis, a basi ad medium ciliatis; stylis numerosis; germinibus depressis.*

*elonga-
tum.*

57.

*

M. (dwarf Tuberous) foliis capitatis obtuse triquetris subspithameis marcescenti-deciduis; petalis longissimis pube longo flexuoso ciliatis; radice magno tuberoso.—*M. elongatum. Nobis in misc. nat. p. 40.—Hort. kew. ed. 2. v. 3. p. 223.*

HABITAT ad Caput Bonæ Spei.

G. H. ♀.

FLORET Mai. rarissime, P. M.

INTROD. circa 1793.

OBS. *Corolla* omnium maxima, seu quincuncialis et ultra, speciosissima, odore hircino; *petalis* in seriebus plurimis angustissimis acutissimis et fere capillaceis, splendide sulphureis, a basi ad medium ciliatis. *Styli* 19, apicibus recurvis. *Misc. nat. l. c.*

*capita-
tum.*

58.

*

M. (short Dagger-leav'd) foliis æquilateri-tri-
quetris glaucescentibus, membranis calycinis
pallidis; petalis luteis longitudine calycis, ex-
terioribus purpurascentibus; stylis strictis se-
taceis. *Nobis in misc. nat. p. 41.—Hort. kew.
ed. 2. v. 3. p. 223.—Ficoides Capensis Caryo-
phylli folio, flore aureo specioso. Bradl. succ.
2. 5. t. 14.—Astero Aizoide Capo di Buona
Speranza. Zan. it. bot. p. 35. t. 13.*

HABITAT C. B. S.

G. H. ♂. s. ♀.

FLORET Jul.—Sept. A. M. pulcherrimè.

CULT. 1717.

*pugioni-
forme.*

59.

M. (long Dagger-leav'd) foliis compresso-tri-
quetris glaucis; membranis calycinis exustis,
petalis stramineis, calyce brevioribus; stylis
expansis lineari-lanceolatis. *Nobis in misc.
nat. p. 42.—Hort. kew. ed. 2. v. 3. p. 223.
—Plant. grass. cum icone.*

HABITAT C. B. S.

G. H. ♀.

FLORET Jul.—Sept. A. M. pulcherrimè.

CULT. 1714.

OBS. This is a larger species than the preceding, having longer and more glaucous leaves, but not larger flowers. It is little better than biennial, and incapable of sustaining itself erect. But *capitatum* is quite upright (when not overdrawn by a hothouse), and lives near eight or nine years in the greenhouse; and its flowers last rather longer in bloom than those of *pugioniforme*.

*** PROSTRATA. *Caudice senecto perbrevis strumoso; caulibus prostratis subnodosis fere sarmentiformibus; foliis capitato-confertis ad nodos, elongatis, aliquantulum rugulosis, absque papulis; petalis (uno excepto) utrinque, vel intus luteis; stylis numerosis, 19-20; germinibus depressis.*

M. (Leathery-stalk'd) foliis capitato-confertis-*loreum.*
sinis semicylindrico-triquetris elongatis recurvis subglaucis; caulibus senectis teretiusculis gracilibus dealbatis. *M. loreum. Dill. elth. t. 200. f. 255 (nec aliorum)—Nobis in misc. nat. p. 38.—Hort. kew. ed. 2. v. 3. p. 222.* 60.

HABITAT C. B. S.

G. H. h.

FLORET Sept. at rarissimè.

CULT. ante 1732.

OBS. *Flores terminales solitarii. Pedunculi sesquiunciales teretes, æquali crassitie, basin versus bracteis duabus foliiformibus recurvis instructi. Calyx ut in M. dubio, profundè 5-6-fidus tuberculatus, laciniis subæqualibus, duabus simplicibus seu planis, cæteris membranâ rubro-punctatâ. Petala fere ut in M.*

Icosandria Pentag. Mesembryanthemum.

dubio. *Filamenta antheræque pallidæ. Styli* circiter sexdecim radiatim depressi ramentacei, sordidè lutei. *Germen hæmisphæricum.*

β. (*congestum*) foliis capitato-confertissimis elongatis triquetris rugosulis viridibus longitudine variis, imis per paria longissimis.

OBS. Majus et viride (nec subglaucum). *M. diversifolium* etiam maximè simulat, sed foliis numerosioribus. Forte propria species. *Flores* non vidi.

Communicavit Dom. Howard circa 1805.

diversifolium.

61.

*

M. (Short Horn-leav'd) foliis capitato-confertis elongatis triquetris semicylindricis subrecurvis viridibus, imis per paria longissimis; caulibus angulatis robustis rubro-luteis.—*M. diversifolium. Nobis in miscel. nat. p. 58.—Hort. kew. ed. 2. v. 3. p. 222.—Mesemb. corniculatum, foliis brevioribus. Dill. elth. t. 198. f. 252.—M. corniculatum β. Hort. kew. ed. 1. v. 2. p. 192.—Willd. sp. pl. 2. p. 1041.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Oct.

CULT. 1726.

OBS. *Petala* speciosa, integra vel emarginata, intus lucidissimè lutea, extus lineâ longitudinali rubro-purpureâ eleganter notata. *Styli* circiter 17 expansi ramentacei.

diminutum.

62.

*

M. (Diminished) subacaule, foliis linearibus subulatis obsoletissime triquetris, corolla læte rubicunda. *Nobis in misc. nat. p. 26.—Hort. kew. ed. 2. v. 3. p. 214.*

HABITAT C. B. S.

G. H. 4.

FLORET Apr.

INTROD. ante 1789.

OBS. Grown in a cool Greenhouse, this distinct

species appears to differ from *M. acutum* in nothing but in being three or four times smaller, and its name was given in allusion thereto. But placed in a Hothouse along with *M. acutum*, the latter remains without branches; while the present article acquires short prostrate ones, so extremely according with the present section, that its admittance into it can no longer be denied, notwithstanding its rubicund flower, and now less applicable specific name. Prior to the publication of the *Miscellanea*, it even went currently, in our best Gardens, by the name of *M. toxeum*, which still it is very distinct from. Its calyx, mode of flowering, and nine styles, are all in consonance also with this section.

M. (Dubious Horn-leav'd) foliis subconfertis *dubium*.
longiusculis triquetro-semicylindricis adscen- 63.
dentibus viridibus, caulibus teretibusculis lu- *
teo-rubris. *Nobis in misc. nat. p. 39.—Hort.*
kew. ed. 2. v. 3. p. 222.—Ficoides africana,
reptans, folio triangulari, crasso, longissimo
flore intus luteo, extus aurantiaco. Bradl.
succ. dec 4. p. 18. t. 40.

HABITAT C. B. S.
FLORET Mai.—Nov.

G. H. 21.

CULT. 1800.

OBS. *Folia* breviora minus conferta, minusque recurva, et magis æqualia quam in ultimis.
Calyx quinquefidus foliolis inæqualibus. *Petalata* speciosa intus sulphurea, extus aurantiorubro notata. *Styli* circiter duodecim.

M. (Long Horn-leav'd) foliis subconfertis tri- *cornicu-*
quetro-semicylindricis longissimis glaucis in- *latum.*
curvantibus, caulibus valde angulatis, nodis 64.

Icosandria Pentag. Mesembryanthemum.

distantibus. *Nobis in misc. nat. p. 39.—Hort. kew. ed. 2. v. 3. p. 222.—M. corniculatum, a. Hort. kew. ed. 1. v. 2. p. 192.—Willd. sp. pl. 2. p. 1040.—Plant. grass. cum icone.—M. foliis corniculatis longioribus. Dill. elth. t. 199. f. 254.*

HABITAT C. B. S.

G. H. 4.

FLORET Mar.—Mai. A. M. rarius.

CULT. ante 1732.

OBS. *Petala* speciosa, latiuscula obtusa emarginata intus splendide lutea; extus pallidiora, lineâ dorsali rubro-purpureâ eleganter notata. *Styli* circiter 13, recurvantes.

tricolorum.

65.

*

M. (Tricolour'd) foliis exactè cylindricis tripollicaribus acutis viridibus, petalis basi purpureis, stylis viginti.—*M. tricolorum. Nobis in misc. nat. p. 39.—Hort. kew. ed. 2. v. 3. p. 223.*

HABITAT C. B. S.

G. H. 4. s. 2.

FLORET Oct. Nov. rarius.

CULT. ante 1794.

OBS. *Corolla* magna pulcherrima, petalis anguste linearibus inæqualibus stramineis nitentibus, basi sanguineo-purpureis. *Antheræ* pulchrè fuscæ oblongæ utrinque emarginatæ; *pollen* fuscum. *Styli* circiter viginti, breves expansi.

**** REPTANTIA. *Ramis suffruticosis, angulosis, decumbenti-prostratis demum reptantibus (tribus exceptis); foliis acute compresso-triquetris absque papulis, apicibus rectis; petalis (M. edule excepto) rubicundis, in hortis (ratione ignota) sæpius rarissimis.*

† MAJORA. *Ramis decumbenti-prostratis, rarissime florentibus.*

M. (Scymetar-leav'd) foliis acinaciformibus im- *acinaci-*
punctatis connatis, marginibus subundulato- *forme.*
scabris, petalis lineari-lanceolatis.—*M. acina-* 66.

ciforme. Willd. sp. pl. 2. p. 1051.—Hort. kew.
ed. 2. v. 3. p. 238.—Nobis in misc. nat. p. 76.

α. *Ramis brevioribus subinde florentibus.*—*M.*
acinaciforme. Salisb. parad. 90.—Andrews.
bot. repos. 508.—M. acinaciforme flore am-
plissimo purpureo. Dill. elth. 282. t. 211.
f. 270; et t. 212. f. 271.

β. *Ramis longioribus, in hortis nunquam flo-*
rentibus.

HABITAT ad Caput Bonæ Spei. G. H. h.

FLORET Jun.—Sept.

CULT. 1714.

OBS. *Flores* in var. α, amplissimi trientales
læte rubicundi. *Pedunculi* angulati, infra
apicem bibracteati. *Bractææ* foliiformes. *Ca-*
lyx amplissimus turbinatus quinquefidus an-
ceps, laciniis inæqualibus, tribus minoribus
altè membranaceis. *Styli* numerosi. *Germen*
intus pulposum sive aquosum, circiter 16-lo-
culare.

OBS. 2. I have seen but three flowers of this
magnificent but shy-flowering species; the
first in June 1804, communicated by Mr.
John Ross, but dying off when it arrived;
the second by R. A. Salisbury, Esq.; and the
third (in a dried state) by Mr. J. Howard.

M. (Smooth Scymetar-leav'd) foliis acinaci- *læviga-*
formibus lævigatis, marginibus cartilagineis *tum.*
integris. *Nobis in misc. nat. p. 76.—Hort.* 67.
kew. ed. 2. v. 3. p. 239. *

HABITAT ad Caput Bonæ Spei. G. H. h.
FLORET Jun. at rarissimè.

CULT. ante 1802.

OBS. I have not seen the flowers of this species, but understand from Mr. Trimmer of Brentford, that he has produced them. And Mr. Collivill Junior informs me he saw them, at Mr. T.'s I believe; and that they were large and rubicund.

rubro-
cinctum.

68.

*

M. (Red-border'd) foliis acutè compresso-tri-
quetris sub-acinaciformibus, marginibus cari-
nâque asperis rubris.

HABITAT ad Caput Bonæ Spei. G. H. h.
FLORES non vidi.

INTROD. 1811, a Dom. Beak.

OBS. This character was derived from a small sprig grown in the open air, and communicated in October 1811 by Mr. Ross. It very much resembles *M. lævigatum*, but appears less. Its red margins are very handsome, but may not prove permanent.

edule.

69.

M. (Hottentot-Fig) foliis æquilateraliter tri-
quetris impunctatis subcanaliculatis utrinque
attenuatis: carina serrulata; angulis ramulo-
rum integerrimis.—*M. edule*. Willd. *sp. pl.*
2. p. 1052.—*Hort. kew. ed. 2. v. 3. p. 239.*
—*Nobis in misc. nat. p. 76.*—*Mesembr. fal-*
catum, majus, flore amplo luteo. Dill. *elth.*
283. t. 212. f. 272.

HABITAT ad Caput Bonæ Spei. G. H. h.

FLORET Jul. Aug. at rarissimè.

INTROD. 1690.

OBS. I have never seen the great yellow flowers of this species; but they were produced in the summer of 1810 in Mr. Swainson's collection

upon a large plant which stood in the Green-house and hung over the flue.

M. (Flat-leav'd Hottentot-Fig) foliis compresso-triquetris impunctatis subacinaciformibus: marginibus cartilagineis scabriusculis, ramulis superne ancipitibus subalato-undulatis. *Nobis in misc. nat. p. 76.—Hort. kew. ed. 2. v. 3. p. 239.*

subalatum.

70.

*

HABITAT C. B. S.

G. H. h.

FLORES non vidi.

CULT. 1802.

M. (Lesser Hottentot-Fig) foliis subbiuncialibus acute-triquetris, senectis compressis, carina supernè ustulatum serrulata.

dimidiatum.

71.

*

HABITAT C. B. S.

G. H. h.

FLORES non vidi.

INTROD. 1811, a Dom. Beak.

OBS. The above character is drawn from a small sprig, communicated by Mr. Ross in October 1811, grown in the open air. It is extremely like *M. edule*, but with leaves only half as long, although nearly of the same thickness.

OBS. 2. The above six species so closely resemble each other, that they might without any great violence to nature be united as varieties of one. The same remark will apply to the next three. But it surely appears better, and even easier, for a student to keep them distinct. For the principles which would level them would sink the genus into comparatively few species; and clog them with innumerable, and, for the most part, more unintelligible varieties. Besides, as all the species in this little work (except *M. hybridum*) have been raised from native seeds, imported by the cu-

rious, in different, and distant years; it is at least a presumptive proof, that they are original and distinct ones. But it is nevertheless a fact, which must not be kept back, that not half the seedlings of this vast Genus which are raised from Cape seeds prove to belong to *old* species. So that we are either not yet acquainted with half the species in existence; or, those which do exist vary in a manner we have no example of in other genera.

When the great botanic traveller Masson (who traversed the Cape countries for twenty years) was asked whether he had sent all the Mesembryanths to England, his emphatic answer was, "No; nor half of them."

glaucescens.

72.

*

M. (Glaucescens) foliis subæquilateraliter triquetris glaucescentibus; caulibus decumbentiprostratis; floribus solitariis sessilibus, stylis septem.

HABITAT in Nova Hollandia.

G. H. h.

FLORET Jul. A. M.

INTROD. circa 1804.

Communicavit Reverend. Dom. Kirby, cum sequente.

Obs. A sequente vix differt, nisi in *petalis* pallidioribus; *calyce* quinquefido fere sessili absque *pedunculo* alato; *floribus* et *foliis* paulo majoribus manifestè glaucioribus; *caulibusque* robustioribus.

virescens.

73.

*

M. (Virescent) foliis subæquilateraliter triquetris virescentibus; caulibus decumbentiprostratis; pedunculis terminalibus solitariis alato-ancipitibus; stylis octo.

HABITAT in Nova Hollandia.

G. H. h.

FLORET Jun. A. M.

INTROD. circa 1804.

OBS. *M. æquilaterali* simile, at longè robustius.

Pedunculi subunciales compresso-alati supernè incrassati. *Calyx* quadrifidus fere compresso-anceps laciniis satis exiguis, duabus acutis foliiformibus, duabus brevioribus membranaceis. *Corolla* ut in *M. æquilaterale* at major et speciosior, lætissimè rubicunda, basi alba, petalis numerosis latiusculis obtusis, apice eroso-denticulatis. *Filamenta* breviter convergentia alba, superne lutea. *Styli* octo filiformes ramentacei viridi-lutei, post anthesin patentissimi, apicibus revolutis. *Germina* non examinavi: at *capsulæ* maturæ ruberrimæ pulposæ ficiformes, et sine dubio edules, ut in *M. edule*.

M. (Equal-sided) foliis subæquilateraliter tri-æquila-
quetris, marginibus lævibus ecartilagineis; *terale*.
caulibus debilibus prostratis.—*M. æquilate-* 74.
rale. Nobis in misc. nat. p. 77.—Willd. sp. *
pl. 2. p. 1051.—Hort. kew. ed. 2. v. 3.
p. 239.

HABITAT in Nova Hollandia. G. H. 2.

FLORET Jun. A. M. at rarissimè.

α. Caulibus rarissimè florentibus.

OBS. *Flores* semel solum vidi, inter maximos certè et formosos numeravi, profundè rubicundos pedunculatos, solitarios vel binatos axillares, e ramis lateralibus. *Styli* sex.

INTROD. 1791.

β. *Ramis* brevioribus sæpius florentibus foliisque aliquantillum robustioribus: *stylis* decem: *capsulis* maturis ruberrimis pulposis ficiformibus ut in præcedentibus.

Communicavit Dom. Howard.

INTROD. circa 1801.

sarment-
tosum.

75.

*

M. (Sarmentous) sarmentis sesquipedalibus, foliis confertis æquilateri-triquetris, pedunculis ternatis e ramis lateralibus.

HABITAT in Nova Hollandia.

G. H. h.

FLORET Apr. A. M.

INTROD. 1805.

OBS. Communicavit Dom. Donn, anno 1806.

Rami prostrati debiles, omnibus geniculis remotiusculis radicanibus, sarmentis omnino simulantes. *Ramuli* breves oppositi subinde floriferi. *Folia* biuncialia satis gracilia subcurvata viridia minutissimè rugulosa, ad lucem multipunctata; marginibus integris subcartilagineis. *Pedunculi* sæpius ternati medio bibracteati, superne clavati tuberculati. *Calyx* quinquesfidus laciniis æqualibus minus membranaceis quam in plurimis. *Petala* medio-cria obtusa rubicunda, costâ saturatiore. *Filamenta* convergentia albicantia superne rosea. *Antheræ* luteæ. *Styli* quinque breves subulati apice recurvi ex luteo-virides.

OBS. 2. This is a very distinct and singular species, and in the slight rugosities of its leaves and peduncles, as well as somewhat in its habit and appearance, approaches the *Section Prostrata*, yet nevertheless belongs decidedly to the present one.

†† ERECTIORA. *Ramis erecto-decumbentibus rarius radicanibus; foliis brevioribus.*

filamen-
tosum.

76.

M. (Thready-flower'd) foliis confertis compresso-triquetris subacinaciformibus punctatis, marginibus serrulato-asperis internodio longioribus.—*M. filamentosum*. Willd. sp. pl. 2. 1051.—Hort. kew. ed. 2. v. 3. p. 240.—*Nobis in misc. nat. p. 78.*—*M. falcatum* ma-

jus flore purpureo mediocri. Dill. *elth.* t. 212.
f. 273.

HABITAT C. B. S.

G. H. h.

FLORET Mar. Ap. rariùs.

CULT. 1732.

OBS. *Corolla* mediocris saturate rubicunda pulchella. *Styli* quinque.

M. (Serrulated) foliis compresso-triquetris marginibus minime serrulatis vix cartilagineis, internodiis sæpe longioribus; ramulis purpureiscentibus asperiusculis; stylis subocto ramentaceis — *M. serrulatum.* Nobis in *miscel. nat.* p. 77. — *Hort. kew. ed. 2. v. 3. p. 239.*

serrulatum.

77.

*

HABITAT C. B. S.

G. H. h.

FLORET Nov. Dec. valde infrequens.

INTROD. 1795.

OBS. *Flores* solitarii terminales compressos, 2-3 solum vidi. *Pedunculi* compressi asperiusculi rubentes fere biunciales supra medium *bracteis* duabus foliiformibus, calycem versus incrassati. *Calyx* quinquefidus laciniis tribus magnis foliiformibus paululum inæqualibus, quartâ valde diminutâ, quintâ omnino altèque membranaceâ medio exustâ. *Petala* fere ut in *M. filamentoso*, sed paulo latiora breviora magisque rubicunda, nervo centrali vix saturatiore. *Stamina* ut in *M. rubricaule.* *Styli* si rite examinavi (at dubio) circiter octo; breviores quam in *M. rubricaule.*

M. (Red-stem'd) foliis compresso-triquetris marginibus cartilagineis serrulatis internodiis sæpe brevioribus; ramulis rubris oppositis; stylis quinque. — *M. rubricaule.* Nobis in *misc. nat.* p. 77. — *Hort. kew. ed. 2. v. 3. p. 240.*

rubricaule.

78.

*

HABITAT C. B. S.

G. H. h.

FLORET Dec.—Feb. A. M.

CULT. 1802.

OBS. *Rami* erectiusculi non reptantes, fere duplo graciliores uti *folia* quam in ultimo. *Flores* terminales semunciales læte rubicundi, nervo centrali saturatiore.

††† CONFERTA *caulibus adscendentibus semipedalibus non radicanibus ; ramis foliisque longis acute-triquetris integris, valde confertis ; floribus speciosis.*

spectabile. M. (Showy) foliis confertis longis glaucis ; stylis obovatis, staminibus albidis duplo brevioribus — *M. spectabile*. *Nobis in miscel. nat.*

79.

*

p. 68 — *Willd. sp. pl.* 2. *p.* 1048. — *Bot. magaz. f.* 396. — *Hort. kew. ed.* 2. *v.* 3. *p.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M. copiosè.

INTROD. 1787.

OBS. *Flores* magni numerosi subpaniculati terminales læte rubicundi.

conspicuum. M. (Dark Showy) foliis confertissimis sublongis viridibus, stylis lanceolatis sublongitudine staminum roseorum.

80.

*

HABITAT C. B. S.

G. H. h.

FLORET Sept. Oct. A. M. copiosè.

INTROD. circa 1806.

OBS. Præcedenti in plurimis simillimum, *caule* altiore, ramosiore, florifero magis compresso saturatiore fuscèdine ; *foliis* viridibus ; *bracteis* minus connatis : *floribus* paniculatis numerosioribus, longe saturatioribus rubedine usque ad basin, et speciosioribus ; *stylis* longioribus acutioribus angustioribus.

Obs. Germen turbinatum quinqueloculare.
Communicavit Dom. Howard.

†††† HUMILLIMA. *Ramis longis omnino prostratis filiformibus reptantibus foliisque cæspitosis.*

M. (New Zealand) foliis glaucescentibus punctulatis triquetris lævibus, caule semitereti rep-
tante, pedunculis ancipitibus.—*M. australe.* 81.
Hort. kew. ed. 1. v. 2. p. 187; ed. 2. v. 3. p. 241.—Willd. sp. pl. 2. p. 1047.—Nobis in miscel. nat. p. 79.

HABITAT in Nova Hollandia. G. H. h.

FLORET Jul. Aug. A. M.

INTROD. 1773.

Obs. Flores dilute rubicundi, pedunculis obtuse ancipitibus superne incrassatis. Styli quinque.

M. (Green prostrate) foliis triquetris impunctatis lævibus perviridibus basi semicylindricis; caule reptante semitereti.—*M. crassifolium.* 82.

Willd. sp. pl. 2. 1047.—Hort. kew. ed. 2. v. 3. p. 240.—Nobis in misc. nat. p. 78.—M. crassifolium repens flore purpureo. Dill. elth. 266. t. 208. f. 257.—Ficoides africana reptans folio triangulari viridi flore saturate purpureo. Bradl. succ. 4. p. 16. t. 38.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Aug. A. M. rarius.

CULT. ante 1727.

Obs. Flores axillares solitarii saturate rubicundi. Styli quinque.

β. Aliquantillum minus, rarissime florens.

Obs. Differs in nothing but in being rather smaller than α, and flowering far less often.

I have seen it bloom but thrice in four-and-twenty years.

clavellatum. M. (Club-leav'd) foliis expansis obsolete triquetris clavis viridibus obtusissimis cum mucronulo. *Nobis in miscel. nat. p. 79.*—

83.

*

Hort. kew. ed. 2. v. 3. p. 241.

HABITAT in Nova Hollandia.

G. H. h.

FLORET Jun. Jul. A. M.

INTROD. 1803.

OBS. Variat.

α. Ramis longioribus minus confertis. *Pedunculi* breves e ramulis lateralibus, solitarii. *Calyx* quinquefidus, laciniis tribus membranceis, duabus foliiformibus. *Flores* (Jul. 1804) M. crassifolii at pulchriores. *Petala* intus perrubicunda vivacissima, basi externèque albida, marginibus latè lætèque rubicundis. *Filamenta* albida inæqualia. *Antheræ* flavescens lacinias calycinas vix æquantes. *Styli* quinque filamentis paulo breviores tenuissimi seu setacei virides.

β. Ramis ramulisque longè densioribus seu confertis.

γ. Ramis erectioribus brevioribus, valde confertis.

OBS. This is the last of the New-Holland species, being the sixth in number, and it is very remarkable they should all have rubicund flowers, and trailing reptant shoots.

reptans. M. (Small creeping-glaucous) foliis confertissimis triquetris acutis glaucis, punctis magnis pellucidis scabris, caule filiformi tenuissimo reptante.—M. *reptans.* Willd. *sp. pl.* 2. 1047.—*Hort. kew. ed. 2. v. 3. p. 241.*—*Nobis in misc. nat. p. 80.*

84.

HABITAT C. B. S. G. H. h.

FLORES non vidi, at secundum *Hort. kew. ed. 1.*
rubicundos, in Jun. et Aug.

INTROD. 1774.

OBS. I once had a plant of this most shy-flow-
ering species which offered a single sessile
flower-bud in May, but it came not to any
maturity.

***** PLANIFOLIA. *Foliis planis, sæpe sub-*
carinatis caulibus decumbenti-prostra-
tis effusis, præpapulosis.

† ANNUA, *radice semper annuâ.*

M. (Ice-plant) *foliis alternis ovatis undulatis crystal-*
papulosis, floribus sessilibus, calycibus late linum.
ovatis retusis acutisque.—M. crystallinum. 85.

Willd. sp. pl. 2. p. 1033.—Hort. kew. ed. 2.

v. 3. p. 224.—Nobis in misc. nat. p. 43.—M.

crystallinum plantaginis folio undulato. Dill.

elth. t. 180. f. 221.—Ficoides africana, &c.

Bratl. succ. 5. 15. t. 48.

HABITAT in Græcia prope Athenas. G. H. ☉.

FLORET Mai.—Aug.

CULT. ante 1727.

OBS. If this species is raised on a hotbed in
early spring, and planted out in the open bor-
ders in May, it will spread half a yard luxu-
riantly every way, and make a fine appearance
till November; but will ripen no seed. Plants
intended for seeding must be kept constantly
in the Greenhouse in small pots; watered sel-
dom, and very little, merely enough to keep
them alive and dwarf. If the seeds are suffered
to shake themselves in the Greenhouse, a suc-
cession of the plants may be kept up all the

Kosandria Pentag. Mesembryanthemum.

year round, which, from the extraordinary ice-like appearance of their leaves, stems, and buds, are universally admired; although their white hair-like flowers are small and trifling. It is occasionally used to garnish dishes: by candle light its icy branches glitter with unusual brilliance.

There was at Kew, a few years ago, another distinct species of Ice-plant larger leav'd than the present, and of upright, not prostrate growth, but I had no opportunity of describing it.

pinnatifidum. 86. M. (Jagged-leav'd) foliis oblongis pinnatifidis papulosis, petalis minutis luteis. *Willd. sp. pl.* 2. p. 1032.—*Hort. kew. ed.* 2. v. 3. p. 224.—*Bot. mag.* 67.—*Plant. grass. cum icone.*—*Nobis in misc. nat.* p. 44.

HABITAT ad Caput Bonæ Spei, et etiam in Chili.
G. H. ☉.

FLORET Mai.—Oct. A. M.

INTROD. 1774.

glabrum. 87. M. (Smooth-leav'd) foliis amplexicaulibus distinctis spatulatis glaberrimis, pedunculis longitudine foliorum, calycibus hemisphæricis. *Hort. kew. ed.* 1. v. 2. p. 193; et ed. 2. v. 3. p. 222.—*Willd. sp. pl.* 2. p. 1034.—*Nobis in misc. nat.* p. 44.—*Bot. repos.* t. 57.

HABITAT C. B. S. G. H. ☉.

FLORET Jul.

INTROD. 1787.

OBS. This should be raised like the Ice-plant in early spring on artificial heat, planted in small pots and placed on a warm border out of doors in May or June; for, contrary to the nature of the Ice-plant, it will not ripen them

in the house, unless more air is given than is consistent with the welfare of most other house plants.

M. (Sun-flower) foliis planis lævibus, pedunculis longissimis, calycibus basi planis angulatis. *Hort. kew. ed. 1. v. 2. p. 193; et ed. 2. v. 3. p. 223.—Willd. sp. pl. 2. p. 1034.—Nobis in misc. nat. p. 45.—Plant. grass. cum icone.* *Helianthoides.* 88. †

HABITAT C. B. S.

G. H. ☉.

FLORET Aug.—Oct.

INTROD. 1774.

OBS. I have not yet found this species in our gardens, although it appears to be in those of France.

M. (Great yellow-flower'd) foliis planiusculis late lanceolatis lævibus subciliatis distinctis, caule pedunculis germinibusque hirtis. *Sp. pl. 698.—Hort. kew. ed. 2. v. 3. p. 223.—Willd. sp. pl. 2. p. 1034.—Nobis in miscel. nat. p. 45.—Bot. magaz. t. 540.* *pomeridianum.* 89.

HABITAT C. B. S.

G. H. ☉.

FLORET Aug.—Oct. P. M.

INTROD. 1774.

M. (hairy-Yellow) foliis lineari-lanceolatis ciliatis, caule, pedunculis, bracteis, calycibusque hirtis, floribus polygynis.—*M. pilosum.* 90. *
Nobis in misc. nat. p. 47.

HABITAT C. B. S.

G. H. ☉.

FLORET Jun.—Aug. A. M.

INTROD. ante 1800.

OBS. Corolla nitide lutea. *Styli* circiter 19.

M. (Transparent) foliis oppositis spathulatis obtusis scabridis: papulis oblongis, foliolis calycinis oblongis obtusis medio coarctatis. *limpidum.* 91. †

Icosandria Pentag. Mesembryanthemum.

Hort. kew. ed. 1. v. 2. p. 183; et ed. 2. v. 3. p. 225.—*Nobis in misc. nat. p. 46.*—*M. (limpidum) subacaule, foliis scabrido-punctatis ovato-lanceolatis planis, pedunculis fructiferis reflexis, calycinis laciniis inæqualibus spathulatis.* Willd. *sp. pl. 2. p. 1030.*—*Plant. grass. cum icone.*—*M. cuneifolium.* Jacq. *ic. 3. t. 288.*—*Nobis in misc. nat. p. 47.*

HABITAT C. B. S.

G. H. ☉.

FLORET Jul.

INTROD. 1774.

OBS. I have never yet seen this species.

lanceolata-
tum.

92.

*

M. (Spear-leav'd) foliis alternis lanceolatis obtusiusculis papulosis, calycibus pedunculatis crystallinis. *Nobis in misc. nat. p. 45.*—*Hort. kew. ed. 2. v. 3. p. 225.*

HABITAT C. B. S.

G. H. ☉.

FLORET Mai.—Oct. A. M.

INTROD. 1795.

OBS. Humifusum; *Pedunculi* brevissimi 1—3-lineares papulosi. *Corolla* parva alba, extus apice flavo-purpurascens. *Styli* 5. An satis a sequenti distinctum?

OBS. As the root is *annual*, and seeds are very rarely ripened, this species cannot be preserved but by striking cuttings twice or thrice a year. Old ones never survive a winter, although young ones do so readily, thus safely preserving the species for many years. How far this and similar facts disturb Mr. Knight's theory of grafts (i. e. cuttings), partaking of the *debility* and even *duration* of their parents, I have not leisure here to attempt to examine.

M. (Sessile-flower'd) foliis planis spathulatis sessili-
caulibusque papulosis, ramis divaricatis, flo-
ribus sessilibus. *Hort. kew. ed. 1. v. 2. p. 193.* 93.
† *ed. 2. v. 3. p. 225.—Nobis in misc. nat.* †
p. 46.—Willd. sp. pl. 2. p. 1034.

HABITAT C. B. S.

G. H. ☉.

FLORET Jul.

INTROD. 1774.

OBS. Nondum vidi.—FLORES lutei secundum
Hort. kew.

†† BIENNIA. *Radice semper bienni foliis planis.*

M. (Aiton's) foliis oppositis alternisque ovato-
spathulatis subundulatis papulosis, ramis cal-
lycibusque angulatis.—*M. Aitonis. Jacq. hort.*
vind. v. 3. p. 1. t. 7.—M. papulosum. Willd.
sp. pl. 2. p. 1033.—Hort. kew. ed. 1. v. 2.
p. 182, excluso synonym. Linn. 94.

HABITAT ad Caput Bonæ Spei.

G. H. ♂.

FLORET Jun.—Oct. P. M.

INTROD. 1774.

OBS. This plant cannot be kept alive unless re-
newed from cuttings twice a year. Those
which have lived a summer and flowered, die
the following winter; but such as have been
raised in autumn, all pass the first winter very
well. It ripens no seeds with us, although
a very free and beautiful flowerer, opening its
rosy blossoms in the afternoon.

M. (Aster-leav'd) foliis lanceolatis planis im-
punctatis, radicalibus capitatis, ramorum al-
ternis, calycibus pentagonis. *Willd. sp. pl. 2.* 95.
p. 1030.—Hort. kew. ed. 2. v. 3. p. 226.—
Nobis in misc. nat. p. 49.—M. Tripolii folio.
Dill. elth. t. 179. f. 220.—Ficoides africana

Icosandria Pentag. Mesembryanthemum.

Sc. Bradl. succ. 5. p. 14. t. 47.—Pluk. mantiss. 77. t. 329. f. 4.

HABITAT ad Caput Bonæ Spei.

G. H. ♂.

FLORET Jun.—Aug. A. M.

CULT. 1700.

OBS. The old plant dies the second winter, but it may be preserved a great many years by an annual supply of cuttings; but as it seeds freely there is no occasion for it.

††† PERENNIA. *Radice semper perenni.*

humifusum.

96.

†

M. (Narrow-leav'd Ice-plant) foliis amplexicaulibus spathulatis carinatis: papulis conicis scabris, petalis minutissimis. *Hort. kew. ed. 1. v. 2. p. 179.*—*Nobis in misc. nat. p. 50.*—*Willd. sp. pl. 2. p. 1033.*—*Hort. kew. ed. 2. v. 3. p. 226.*

HABITAT C. B. S.

G. H. ♀.

FLORET Jul. Aug.

INTROD. 1774.

OBS. I have not yet seen this species, which according to the Hortus Kewensis is shrubby; otherwise I should have thought it might not be distinct from the strictly annual *M. lanceolatum*.

cordifolium.

97.

M. (Heart-leav'd) foliis petiolatis cordatis, ovatisque, papulosis, caule tereti, calycibus sæpe quadrifidis.—*Mesembr. cordifolium. Linn. supp. 260.*—*Gloxin Obs. bot. p. 22. t. 1. f. a.*—*Smith. spic. bot. p. 6. t. 6.*—*Plant. grass. cum icone.*—*Hort. kew. ed. 1. v. 2. p. 182.*—*Willd. sp. pl. 2. p. 1032.*—*Jacq. hort. vind. 3. 487.*—*Nobis in misc. nat. p. 50.*

HABITAT C. B. S.

G. H. ♀. s. H. ☉.

FLORET Maj.—Sept.

INTROD. 1774.

Obs. If this plant is suffered to shake its seeds in a South border, it becomes a hardy annual. But in the greenhouse I have trained two branches of a plant in a 60-sized pot upwards of ten feet each way in two years; which were broken at last by accident, although still in a growing state.

M. (Houseleek-leav'd) foliis ovato-lanceolatis *expans-*
confertis oppositis alternisq e remotis. Willd. sum.
sp. pl. 2. p. 1032. (excluso synonymo Petiver.) 98.
—Hort. kew. ed. 2. v. 3. p. 227.—M. tortu-
osum. Plant. grass. cum icone.—Nobis in
misc. nat. p. 51.—M. tortuosum foliis Sem-
pervivi expansis. Dill. elth. t. 182. f. 223.—
Bradl. succ. 3. p. 7. t. 25.

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug. A. M.

CULT. 1705.

M. (Skeleton-leav'd) foliis lanceolato-ellipticis *anatomy-*
papuloso-crystallinis, petalis staminibusque cum.
argenteis, caulibus filiformibus. Nobis in 99.
*misc. nat. p. 50.—Hort. kew. ed. 2. v. 3. **
p. 227.—M. emarcidum. Thunb. prod. 88?

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug. A. M.

CULT. ante 1803.

Obs. The nerves of the old exsiccated leaves remain long upon this species, and give to it a strange skeleton-like appearance.

M. (Various-leav'd) foliis lanceolatis acumi- *varians,*
natis carinatis, subinde obtuse triquetris, ca- 100,
*naliculatisque; pedunculis crassissimis. Nobis **
in misc. nat. p. 51.—Hort. kew. ed. 2. v. 3.
p. 227.—Ficoides capensis folio late-acuto
flore albo intus luteo. Petiv. gaz. t. 78. f. 10,

HABITAT ad Caput Bonæ Spei. G. H. h.
 FLORET Jul.—Oct. A. M.
 CULT. 1706.

tortuo-
-sum.
 101.

M. (Twisted) foliis confertis ovato-lanceolatis
 acuminatis concavis subcarinatis, calycibus
 triphyllis bicornibus. *Hort. kew. ed. 2. v. 3.*
p. 227.—Willd. sp. pl. 2. p. 1036.—Nobis in
misc. nat. p. 51.—M. tortuosum, foliis Sem-
pervivi congestis. Dill. elth. t. 181. f. 222.—
Ficoides capensis procumbens oleaefolio flore
albo medio croceo. Bradl. succ. 2. p. 7. t. 16.
 HABITAT C. B. S. G. H. h.
 FLORET Mai.—Oct. A. M.
 CULT. 1705.

pallens.
 102.

M. (Pale) foliis glaucis oppositis oblongo-lan-
 ceolatis acutis canaliculatis obtusè carinatis.
 —*M. pallens. Hort. kew. ed. 1. v. 2. p. 182.*
 —*Nobis in misc. nat. p. 52.—Willd. sp. pl. 2.*
p. 1035.—Hort. kew. ed. 2. v. 3. p. 228.—
M. expansum. Plant. grass. cum icone.
 HABITAT C. B. S. G. H. h.
 FLORET Jul.—Oct. A. M.
 INTROD. 1774.

***** CANALICULATA. *Foliis linearibus, ju-*
nioribus canaliculatis (M. tuberoso
excepto) subtus convexis, papulosis;
ramis sæpe suffrutescentibus, radice
sæpe perenni, rarius annuâ.

† ANNUA. *Radice annuâ.*

nodiflo-
-rum.
 103.

M. (Knot-flowering) foliis alternis teretiusculis
 obtusis basi ciliatis. *Willd. sp. pl. 2.*
p. 1043.—Hort. kew. ed. 2. v. 3. p. 228.—
Nobis in misc. nat. p. 54.—Kali crassulæ

minoris foliis. Moris. hist. 2. p. 610. s. 5.
t. 33. f. 7.

HABITAT in Ægypto.

G. H. ☉.

FLORET Aug.—Oct. A. M.

CULT. 1739.

Obs. As this species ripens no seed with us, having but an annual root, it can only be preserved in the gardens by renewing it from cuttings two, three, or four times in a year: or by fresh supplies of foreign seed.

M. (Apetalous) foliis amplexicaulibus distinctis *apeta-*
linearibus, supra planis, internodiis papulosis *lum.*
longioribus, papulis oblongis, floribus pedun- 104.
culatis, calycibus quinquefidis.—*M. apeta-*
lum. Linn. supp. 258.—*Hort. kew.* ed. 1.
v. 2. p. 180; & ed. 2. v. 3. p. 228.—*Willd.*
sp. pl. 2. p. 1036.—*Nobis in misc. nat.*
p. 54.—*M. copticum, humifusum, foliis line-*
ari-lanceolatis, calycibus foliolis magnis parum
inæqualibus petalis inconspicuis multoties lon-
gioribus. Jacq. hort. 3. p. 7. t. 6.

HABITAT C. B. S.

G. H. ☉.

FLORET Jul. Aug.

INTROD. 1774.

M. (Small-flower'd) foliis filiformi-semiteretibus *caducum,*
distinctis: papulis ovatis floribus lateralibus 105.
sessilibus; terminalibus pari foliorum cinctis.
Hort. kew. ed. 1. v. 2. p. 178; ed. 2. v. 3.
p. 228.—*Willd. sp. pl.* 2. p. 1037.—*Nobis*
in misc. nat. p. 55.

HABITAT C. B. S.

G. H. ☉,

FLORET Jul. Aug.

INTROD. 1774.

†† SPINULIFERA. *Costis foliorum exsiccatorum basi persistentibus, et spinulescentibus; ramulis, foliis pedunculisque papuloso-crySTALLINIS; caudice senecto sæpe strumoso.*

tuberosum.

106.

M. (Tuberous shrubby) foliis subtriquetro compressis minute papulosis supernè recurvantibus, radice senectâ ingenti-tuberosâ.—*M. tuberosum. Willd. sp. pl. 2. p. 1039.—Hort. kew. ed. 2. v. 3. p. 247.—Nobis in miscel. nat. p. 89.—Plant. grass. cum iconē.—M. fruticescens radice ingenti-tuberosa. Dill. elth. t. 207. f. 264.*

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Oct. A. M.

CULT. 1714.

OBS. *Folia* non canaliculata. *Flores* miserè minuti, rubicundi, intus tincturâ fulvâ, calycibus vix longiores.

spinuliferum.

107.

*

M. (Spinulescent) foliis confertis semiteretibus papulosis canaliculatis, caudice ramisque erectis incrassatis. *Nobis in misc. nat. p. 57.—Hort. kew. ed. 2. v. 3. p. 229.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Oct. A. M.

CULT. ante 1794.

OBS. In hoc et plus minus in sequentibus hujus divisionis, costæ seu nervi principes foliorum exsiccatorum sæpe persistent, et infernè in spinulas permanentes demum transformantur.

grossum.

108.

M. (Gouty) foliis linearibus papulosis obtusiteretiusculis utrinque attenuatis canaliculatis, caudice incrassato, ramis diffusis debilibus.—*M. grossum. Hort. kew. ed. 1. v. 2. p. 191.—Willd. sp. pl. 2. p. 1043.—Nobis in misc. nat. p. 56.—Hort. kew. ed. 2. v. 3. p. 229.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Sept. A. M.

INTROD. 1774.

OBS. *Corolla* mediocris petalis multiserialibus, pallide carneis, demum stramineo-carneis.—
Misc. nat. l. c.

M. (Green-flower'd) foliis semiteretibus papu- *viridiflo-*
loso-pilosis, calycibus hirsutis, petalis viri- *rum.*
dibus, caudice incrassato, ramis diffusis.— 109.

M. viridiflorum. Hort. kew. ed. 1. v. 2.
p. 196; et ed. 2. v. 3. p. 229.—Willd. sp.
pl. 2. p. 1042.—Nobis in misc. nat. p. 56.—
Bot. magaz. t. 326.

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Nov.

INTROD. 1774.

OBS. *Corolla* absolute viridis, in qua ab omnibus notabiliter differt.

M. (Nitid) foliis semiteretibus pulcherrime pa- *nitidum.*
pulosis, pedunculis dichotomis calycibusque 110.
crystallinis, ramis gracilibus nodosis diffusis. *

Nobis in misc. nat. p. 57.—Hort. kew. ed. 2.
v. 3. p. 229.—M. pruinsum. Thunb. prod.
p. 90.—M. (brachiatum) Plant. grass. cum
icone.

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Oct.

CULT. ante 1794.

M. (Icy-channel'd) foliis linearibus semitere- *canalicu-*
tibis canaliculatis papulosis, caulibus pro- *latum.*
stratis filiformibus. *Nobis in misc. nat. p. 57.* 111.

—*Hort. kew. ed. 2. v. 3. p. 229.* *

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Oct. A. M.

CULT. ante 1794.

OBS. *Corolla* parva dilutè rubicunda. *Capsula* carnosà pellucida.

††† VARIA. *Caulibus* suffrutescentibus absque characteribus præcedentium, foliis sæpius plus minusve papulosis.

villosum. M. (Villous) foliis linearibus semiteretibus canaliculatis pubescentibus, caulibus pilosis prostratis. *Willd. sp. pl.* 2. p. 1042.—*Hort. kew. ed.* 2. v. 3. p. 230.—*Nobis in misc. nat.* p. 58.

HABITAT C. B. S.

G. H. h.

FLORET Jul. A. M.

CULT. 1759.

OBS. Non rite hujus generis; sed affinior *Sesuvio*. *Corolla* nulla, at *Calyx* incrassatus quinquefidus extus viridis pilosus, intus nudus purpurascens; quasi calyx corollaque in uno juncti.

brachiatum. M. (Three-fork'd) caulibus foliisque cylindricis papulosis ramis trichotomis. *Hort. kew. ed.* 1.

113. v. 2. p. 19.—*Willd. sp. pl.* 2. p. 1044.—*Nobis in misc. nat.* p. 58.—*Hort. kew. ed.* 2. v. 3. p. 230.—*M. decussatum*. *Thunb. prod.* p. 68.

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug.

INTROD. 1774.

OBS. *Frutex* tripedalis ramulis numerosissimis trichotomis.

geniculiflorum. M. (Joint-flowering) foliis semiteretibus papulosis internodio brevioribus, floribus sessilibus axillaribus, calycibus quadrididis, ramis divaricatis.—*M. geniculiflorum*, *Willd. sp. pl.* 2. p. 1037.—*Hort. kew. ed.* 2. v. 3. p. 230.—

114.

Plant. grass. cum icone.—*M. capense geniculiflorum neapolitanum creditum.* Dill. elth. 271. t. 205. f. 261.—*Ficoides seu Ficus aizoides africana erecta, teretifolia, floribus albis umbellatis.* Brndl. succ. 5. 12. t. 34.—*Ficoides capense folio tereti fl. albido.* Pet. gaz. t. 78. f. 3.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Sept. P. M.

CULT. 1727.

OBS. Flores pallide straminei. Rami articulati, valde dichotomi divaricati.

OBS. 2. Bradley's figure above cited clearly represents this species, but the name and description attached to it as clearly appertain to *M. umbellatum*, which he has also figured on his 44th plate; but with his usual inadvertency has given to it a name and description belonging to *Othonna tenuifolia*, Linn. a plant rather resembling *M. umbellatum*, but of the class Syngenesia, and not figured by him at all.

M. (Rusby) foliis subulatis semiteretibus acutis junceum. remotis, floribus terminalibus dichotomis, laciniis calycinis quatuor valde inæqualibus. 115.
Nobis in misc. not. p. 59.—Flort. kew. ed. 2. v. 2. p. 230.—M. (articulatum) foliis linearilanceolatis, caule erectiusculo ramoso, floribus secundis albis. Thunb. prod. p. 88?

HABITAT C. B. S.

G. H. h.

FLORET Aug.—Oct. A. M.

CULT. circa 1800.

OBS. Rami erecti articulati, mox defoliati juncei. Flores parvi numerosissimi rubicundi basi albicantes.

- ciliatum*. M. (Ciliated) foliis oppositis connatis semiteretibus, stipulis membranaceis reflexis laceris ciliiformibus. *Hort. kew. ed. 1. v. 2. p. 179.*
 116. † —*Willd. sp. pl. 2. p. 1037.*

HABITAT C. B. S.

G. H. h.

FLORET....

INTROD. 1774.

OBS. I have never seen this species, and from the circumstance of its being described in both editions of Hortus Kewensis, as having reflexed lacerated stipules, should greatly doubt its belonging to this genus. May it not rather belong to that division of the *Arenariae*, which is above named *Stipularia*?

- fastigiatum*. M. (Level-topp'd) foliis confertis flexuoso-reflexis subulatis semiteretibus glaucis, calycinis laciniis æqualibus, tribus utrinque membranaceis, caulibus gracilibus erectis, mox subdecumbentibus. *Nobis in misc. nat. p. 60, excluso synonymo Bradleii.—Hort. kew. ed. 2. p. 231.*
 117. *

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Sept. A. M.

CULT. ante 1794.

OBS. *Corolla* extus sordide fulva intus pallidior, mox lutescens et albicans.

β. *M. (reflexum)* foliis flexuoso-reflexis obtusis semiteretibus glaucis, calycinis laciniis valde inæqualibus, caule senecto erecto basi incrassato. *Nobis in misc. nat. p. 60.—Hort. kew. ed. 2. v. 3. p. 231.*

γ. *Mesemb. (pallens)* foliis oppositis amplexicaulibus distichis oblongo-lanceolatis, acutis obtuse carinatis : papulis minutis. *Jacq. hort.*

16. 279.—*M. reflexum*, β . *Floribus purpurascens*. *Nobis in misc. nat. p.* 61.

OBS. I have often seen this variety growing and flowering in Kew Gardens, but never possessed it.

M. (Small-blossom'd) *foliis lanceolato-linearibus carinatis impunctatis, distinctis; floribus pedunculatis calycis quadrifidis, foliolis duobus longissimis, aliis brevissimis.* *Jacq. hort.* 3.

15. 278. *sub nomine M. parviflori.*

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET

CULT. circa 1804.

OBS. If memory does not greatly deceive, I have likewise seen this species in the Royal Gardens at Kew, but never possessed it. It is extremely distinct from my *M. parviflorum*, being quite of a different section; and would probably better arrange before, than after, *M. fastigiatum*.

M. (Flexuose) *foliis confertis flexuoso-recurvis perviridibus semiteretibus, laciniis calycinis quinque digitiformibus, caulibus subflexuosis gracilibus lucidis.* *Nobis in misc. nat. p.* 61. 119.

—*Hort. kew. ed. 2. v. 3. p.* 231. *

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Jul. Aug. A. M.

INTROD. 1795.

OBS. *Corolla* fere ut in *M. fastigiato* α . extus tincturâ rubeinis.

M. (Shining) *foliis semiteretibus confertis apice flexuoso-recurvis, calycinis laciniis 5-6 percrassis digitiformibus subæqualibus, foliis obtusis horizontalibus.*—*M. splendens.* *Willd. sp. pl. 2. p.* 1042.—*Hort. kew. ed. 2. v. 3.* 120.

Icosandria Pentag. Mesembryanthemum.

p. 231.—*Mesemb. foliis confertis splendentibus, flore pallido. Dill. elth. 270. t. 204. f. 260.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug.

CULT. 1723.

α. Calycinis laciniis sæpe 6 percrassis digitiformibus subæqualibus, foliis obtusis horizontalibus. *Misc. nat. l. c.*

β. Calycinis laciniis semper 5 gracilioribus subæqualibus, petalis extus ad apicem subfulvis, intus albidis, foliis patentibus (nec horizontalibus) acutioribus: stylis 6: capsulis 6-lo-
cularibus, 6-angulatisque. *Misc. nat. l. c.*—*Ficoides capensis frutescens foliis teretibus confertis glaucis, flore albo. Bradl. succ. 1. p. 7. t. 6.*

***** FLAVIFLORA. *Caulibus suffrutescentibus sæpe erectis, foliis plus minus triquetris, subcylindricisve, sæpe brevissimis absque papulis: petalis flavis, aurantiis croceis coccineisve.*

† PERFOLIOSA. *Foliis subtriquetris, valde confertis glaucis pulposis, petalis flavis croceisve.*

veruculatum.
121.

M. (Spit-leav'd) foliis confertis perglaucis triquetro cylindricis acutis arcuatis distinctis, floribus pomeridianis.—*M. veruculatum. Willd. sp. pl. 2. p. 1041.—Hort. kew. ed. 2. v. 3. p. 241.—Plant. grass. cum icone.—M. foliis veruculiformibus, floribus mellinis umbellatis. Dill. elth. t. 203. f. 259.*

HABITAT C. B. S.

G. H. 4.

FLORET Mai. a meridiano fere ad vesperem.

OBS. The heads of small yellow flowers have a honey-like scent. The crop of large blunt juicy leaves, is the heaviest of all the genus; and, if not watered too much, they have rubicund tips, and make a fine appearance on old plants; entirely hiding their clustered branches in clusters of foliage.

M. (Purple-saffron-flower'd) foliis confertis *purpureo-*
tereti-triuetris obtusis perglaucis, foliolis *croceum.*
lycinis valde inæqualibus, petalis extus læte 122.
rubicundis intus croceis. *Nobis in misc. nat.* *
p. 81.—*Hort. kew. ed. 2. v. 3. p. 242.*

HABITAT C. B. S.

FLORET Aug.—Oct. A. M.

OBS. Before the shewy flowers open, there is all the colour externally of a bright rubicund blossom; but as soon as they expand, no colour on the petals within, but deep saffron appears. The plant is delicate, and requires frequent renewal from cuttings.

†† NOCTIFLORA. *Caulibus suffrutescentibus gracilibus duris, valde defoliatis (in hoc genere), foliis fragilibus et inde fere deciduis, seu caducis, teretiusculis impunctatis, calycibus quadrifidis, corollis odoratissimis intus albis, radicibus senectis carnosoincrassatis fibris perpaucis.*

OBS. The brittle and thence nearly caducous nature of the leaves of this subdivision, is peculiar to it, as are also its slender wiry shoots. It also has the faculty of shooting freely from the old wood when cut down below the leaves. These circumstances, but more especially its brittle and slightly attached and thence nearly deciduous leaves, render it pro-

bable that it is likewise hardier than the others with respect to cold: and yet I know it is capable of enduring considerable heat.

noctiflo-
rum.

123.

M. (Night-flowering) foliis remotis obsolete semicylindricis distinctis glaucis, petalis intus albis, extus luteis phœniceisve, cortice albo.—*M. noctiflorum*. Willd. *sp. pl.* 2. p. 1038.—*Hort. kew. ed.* 2. v. 3. p. 232.—*Nobis in misc. nat.* p. 63.

α. Floribus extus roseis, intus albis.

M. noctiflorum fl. intus albo, extus phœniceo odoratissimo. Dill. *elth. t.* 206. f. 262.—*Plant. grass. cum icone.*

β. Floribus extus luteis.

M. noctiflorum, flore intus candido extus stramineo. Dill. *elth. t.* 206. f. 263.

OBS. Flores majores quam in α, et forte minus fragrantēs. Petala valde numerosa, exteriora primo plerumque lutea acuta et integra, demum pallidiora, interiora alba. Filamenta nivea præinæqualia petalis breviora. Antheræ sulphuræ minutæ. Styli quatuor suberecti breves, lineares viridi-lutei obtusi lævigati lucidi. Germen supernè conicum quadriloculare. Calyx quadrifidus obconicus carnosus, laciniis duabus exterioribus duplo majoribus magisque membranaceis, omnibus obtusis. Cætera ut in α.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug. Vespere.

CULT. 1714.

OBS. The outer yellow petals finally fade to nearly a white colour; and I believe in that state the plant has been called a white flowered variety: although the new blown flowers are invariably yellow on the outside.

M. (Straw-colour'd) foliis remotis subcylindricis distinctis subglaucis exactè semierectis, *stramineum*.
 corollis intus albis, extus fulvis, cortice cinereo-fusco.—*M. stramineum*. *Nobis in misc. nat. p. 63. excluso synonymo Dillenii.*—*Hort. kew. ed. 2. v. 3. p. 232.* 124. *

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug. Vespere.

INTROD. circa 1795.

OBS. Flores pauciores quam in *M. noctifloro* vix dichotomi. Radices senecti incrassati et fere fusiformes.

OBS. 2. Vulgo dictum est *Zil*, apud Hottentotos.

M. (Horizontal-leav'd) foliis remotis subcylindricis distinctis glaucis exactè horizontalibus, *horizontale*.
 corollis extus stramineis, intus albis, cortice cinereo-albo.—*M. defoliatum*. *Nobis in misc. nat. p. 64?*—*Mesemb. stramineum, a. Nobis in misc. nat. p. 63-4, exclusis synonymis Linneæanis Dillenianisque.* 125. *

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug. Vespere.

INTROD. 1795.

OBS. This is probably Jacquin's *M. clavatum*, from my recollection of his figure, (*Hort. schwenbr. t. 108.*) His description of the bark and petals, and position of the leaves will determine this.

††† TARDIFLORA. *Foliis brevibus vel subinde brevissimis, floribus (ratione ignota) in hortis rarissimis.*

M. (Soft) foliis patentibus turgido-triquetris *molle*.
 canescentibus, marginibus obtusis lineato- 126.

Icosandria Pentag. Meseimbryanthemum.

punctatis, ramis ancipitibus decumbentibus.
 —*M. molle*. Hort. kew. ed. 1. v. 2. p. 192.
 v. 3. p. 242.—*Willd. sp. pl.* 2. p. 1048.—
Nobis in misc. nat. p. 83.

HABITAT C. B. S.

G. H. h.

FLORET Oct. A. M. rarissimè.

INTROD. 1774.

OBS. Flores (a Dom. Howard communicati) terminales solitarii, pedunculis sescuncialibus teretiusculis infernè aliquantillum attenuatis virentibus, infra medium basimve versus bracteis duabus foliiformibus amplectentibus altè instructis, deorsum valde compressis. *Calyx* quinquefidus laciniis parvulis, duabus paulo minoribus, ad latera apicesque membranaceis. *Corolla* parva semuncialis, mane expansa, petalis pallidè rubicundis, angustè linearibus æquali latitudine, apicibus sæpius integris. *Filamenta* breviter convergentia atropurpurea basi alba; exteriora sterilia, apicibus pullis, umbonem pullum medio flore constituentibus. *Antheræ* albidæ tincturâ flavedinis. *Styli* quinque, maturi filamentorum longitudine crassi apicibus subulatis, paululum ramentacei.

strictum. M. (Straight) foliis triquetris obtusis expansis
 127. glaucescentibus grandipunctatis, caule ramo-
 * sissimo lignoso rigidissimo stricto.—*M.*
strictum. *Nobis in misc. nat.* p. 82.—*Hort.*
kew. ed. 2. v. 3. p. 242.

HABITAT C. B. S.

G. H. h.

FLORET....

INTROD. circa 1795.

OBS. Although this species often grows two or three feet high, it produces no flowers with us.

M. (Boat-leav'd) foliis cymbiformibus triquetris patentibus glaucis, caulibus ramosis: ramulis subfiliformibus suberectis. *Nobis in misc. nat. p. 82.—Hort. kew. ed. 2. v. 3. p. 242.—M. (sessile) foliis trigono-globosis glabris, caule erecto tereti ramoso, floribus sessilibus rubris. Thunb. prod. 89?* *cymbiforme.* 128. *

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET

INTROD. circa 1793.

OBS. It will grow a foot high, but never flowers with us.

M. (Grain-leav'd) foliis distinctis oppositis subtriquetris ovalis graniformibus trilinearibus, petalis luteis, staminibus collectis, expansis triuncialibus.—*M. graniforme. Nobis in misc. nat. p. 82.—Ficoides capensis ramosa, foliis minoribus, Noctiflora lutea. Bradl. succ. 2. 11. t. 20.* *graniforme.* 129. *

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Autumno, Vespere.

CULT. ante 1727.

OBS. I have never seen this species, but inserted it on Bradley's authority alone, who says: "The leaves are hardly bigger than grains of wheat: and that the flowers (which are yellow) do not open till the sun is down."

†††† FREQUENTIFLORA. *Foliis longiusculis triquetris: floribus frequentibus speciosis flavis aureis aurantiisve.*

OBS. All the species of this division are extremely beautiful, and free flowerers.

M. (Golden) foliis cylindrico-triquetris punctatis distinctis, petalis croceis, stylis atropur- *aureum.* 130.

Icosandria Pentag. Mesembryanthemum.

pureis.—*M. aureum. Willd. sp. pl. 2. p. 1049.*

—*Plant. grass. cum icone.—Bot. magaz. 262.*

—*Nobis in misc. nat. p. 84.*

HABITAT C. B. S.

G. H. h.

FLORET Mar.—Oct. A. M.

CULT. 1750.

OBS. This species if not kept too warm is a free and beautiful flowerer : but, like almost all the shrubby species, it thrives best without artificial heat, requiring protection from frost and wintery rains only; and very free air at all times whenever it is fair, and Fahrenheit's thermometer is not under 35 degrees.

glaucum. M. (Glaucous-leav'd) foliis triquetris valde compressis glaucis subscabris, foliolis calycinis ovato-cordatis, petalis subdistantibus sulphureis, pistillis luteis.—*M. glaucum. Willd.*

131.

sp. pl. 2. p. 1048.—Hort. kew. ed. 2. v. 3. p. 243.—Nobis in misc. nat. p. 83.—

M. scabrum, flore sulphureo convexo. Dill. elth. 256. t. 196. f. 248.—Ficoides afra caule lignoso, erecto, folio triangulari ensi-

formi scabro, flore luteo magno. Bradl. succ. 4. p. 15. t. 37.—Ficoides frutescens folio triangulari breviglauc. Moris. hist. s. 12. t. 6. f. 3.

HABITAT C. B. S. G. H. h.

FLORET Mai.—Jul. A. M.

CULT. 1696.

OBS. I have had this species survive a winter in the open air, but in a very dry situation.

β. foliis brevioribus sed latioribus angulis, undique magis scabris.

auranti-um. M. (Orange-flower'd) foliis perglaucis triquetris subcompressis, bracteis semiteretibus,

132.

*

calycinis foliolis oblongo-ovatis, petalis aurantiis imbricatis, stylis extus purpureis. *Nobis in misc. nat. p. 84.—Hort. kew. ed. 2. v. 3. p. 243.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug. A. M.

INTROD. 1793.

M. (Scarlet-flower'd) foliis tereti-triquetris sub-compressis obtusis glaucescentibus, pedunculis basi lævibus, petalis coccineis. *Nobis in misc. nat. p. 85.—Hort. kew. ed. 2. v. 3. p. 243.—Plant. grass. cum icone.—M. bicolorum β. Willd. sp. pl. 2. p. 1039.—Ficoides seu Ficus aizoides africana folio longo tenui flore aurantio. Boerh. ind. alt. 291. 5.*

133.

*

HABITAT C. B. S.

G. H. h.

FLORET copiosè Jul.—Oct. A. M.

CULT. ante 1793.

β: elatius, floribus minus aurantiis tincturâ conspicuâ rubicundâ; foliis paulo longioribus minus glaucescentibus.

OBS. I have had this species survive a winter in the open air.

M. (Two-colour'd) foliis subtriquetris acutis viridibus, pedunculis calycibusque subæqualibus scabris, petalis intus luteis: ramis erectis.—*M. bicolorum. Willd. sp. pl. 2. p. 1039.—Hort. kew. ed. 2. v. 3. p. 244.—Nobis in misc. nat. p. 85. excluso synonymo Bradleyi.—M. frutescens tenuifolium flore croceo. Dill. elth. 202. f. 258.—Ficoides seu Ficus aizoides africana minor erecta triangulari folio viridi flore intus aureo, foris purpureo. Moris. hist. 3. p. 507. s. 12. t. 6. f. 4.*

134.

—*M. frutescens tenuifolium flore croceo. Dill. elth. 202. f. 258.—Ficoides seu Ficus aizoides africana minor erecta triangulari folio viridi flore intus aureo, foris purpureo. Moris. hist. 3. p. 507. s. 12. t. 6. f. 4.*

HABITAT C. B. S.

G. H. 2.

FLORET Mai.—Sept. A. M. copiosè.

CULT. 1732.

inæqua-
le.

135.

*

M. (Unequal-cupp'd) foliis subtriquetris perviridibus, pedunculis fructiferis compresso-clavatis; laciniis calycinis valde inæqualibus membrana longioribus: ramis effusè decumbentibus.—*F. coides Cupensis frutescens foliis tereti punctato petalis luteis.* Bradl. succ. 1. p. 8. f. 7. mala.

HABITAT C. B. S.

G. H. 2.

FLORET Mai.—Sept. A. M.

CULT. ante 1716.

OBS. M. bicolori simillimum, at ramis magis decumbenti-effusis, omni parte paulo majore, exceptis pedunculis gracilioribus at longioribus: *flores* extus pallidiores.

In M. bicolori laciniæ calycis florentis æquali longitudine sunt, membranas earum non superantes.

In M. coccineo membranæ calycis, breviores quam laciniis.

variabi-
le.

136.

*

M. (Variable) foliis subtriquetris compressis scabris glaucis, calycinis laciniis subæqualibus, petalis luteis, caulibus effusis decumbentibus.—*M. variable. Nobis in misc. nat.* p. 85.—*Hort. kew. ed. 2. v. 3. p. 244.*

HABITAT ad Caput Bonæ Spei.

G. H. 2.

FLORET Jun.—Aug. A. M. copiosè.

CULT. 1796.

OBS. Præcedentibus primo intuitu dignoscitur foliis glaucioribus et tenuioribus, et a M. deflexo, retroflexo, et violaceo, (quibus maxime affine est) petalis luteis, et foliis minus glaucis.

Obs. A large plant of this kind presents the singular spectacle of flowers of various colours open at the same time upon one root. On first opening they are orange or saffron within; then yellow; soon after, pale yellow or whiteish, with a tinge of red and a red midrib; afterwards fleshy-white within, rubicund without, and with a deeper midrib; and at last quite rubicund, but paler within, except the midrib.

M. (Slender-leav'd) foliis semiteretibus sub-compressis subulatis viridibus glabris internodiis longioribus, petalis coccineis caulibus decumbentibus.—*M. tenuifolium*. Willd. *sp. pl.* 2. 1040.—*Hort. kew. ed. 2. v. 3. p. 244.*—*Plant. grass. cum icone.*—*M. tenuifolium procumbens folio tenuiore viridi, flore coccineo.* Dill. *elth. t.* 201. *f.* 256.—*Ficoides Capensis humilis tereti folio flore coccineo.* Bradl. *succ. 1. p. 13. t. 9.*—*Ficoides africana minor procumbens folio tenuiori viridi flore coccineo.* Moris. *hist. 3. p. 507. s. 12. t. 8. f. 6.* 137.

HABITAT C. B. S.

G. H. h.

FLORET Jul. A. M. pulcherrimè.

CULT. 1700.

†††† SCABRIDA. *Foliis punctato-scabris, obsolete triquetris, subcompressis rectis.*

M. (Scabrous) foliis subtriquetris viridibus verrucoso-scaberrimis, foliolis calycinis ovato-acuminatis, petalis pallidis apice crenatis, staminibus collectis.—*M. scabrum*. Willd. *sp. pl.* 2. 1049.—*Hort. kew. ed. 2. v. 3. p. 236.*—*Nobis in misc. nat. p. 71.*—*M. purpureum* 138.

scabrum, staminibus collectis. Dill. elth. 260. t. 197. f. 251.

HABITAT C. B. S.

G. H. h.

FLORET Jul. A. M. infrequens.

CULT. 1731.

versicolor.

139.

*

M. (Changeable-flower'd) foliis subtriquetris glaucescentibus verrucoso-præscabris, foliolis calycinis ovato acuminatis, apice subbidentatis, staminibus collectis. *Nobis in misc. nat. p. 70.—Hort. kew. ed. 2. v. 3. p. 235.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Aug. A. M.

INTROD. 1795.

OBS This is the only flower I am acquainted with that regains its colour after having once lost it. It is rubicund in the morning; pale-silvery to the meridian sun; and rubicund again in the evening. But perhaps there may be some ocular deception in this apparent change, from the dazzling glare of the meridian sun. Or the heat of noon expanding the very surface of the petals; may cause them to reflect the solar rays in a different manner, and with different tints. The regaining of the lost colour *after* the sun's departure favours the idea.

emarginatum.

140.

M. (Notch-flower'd) foliis glaucescentibus subtriquetris scabris, calycibus spinosis, petalis violaceis apice crenatis, staminibus patentibus. —*M. emarginatum. Willd. sp. pl. 2. 1049. —Hort. kew. ed. 2. v. 3. p. 235.—Nobis in misc. nat. p. 70.—M. purpureum scabrum staminibus expansis. Dill. elth. t. 197. f. 250.*

—*Ficoides capensis, triangulari folio acuto flore purpureo.* Pet. gaz. t. 77. f. 3.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug. copiosè. A. M.

CULT. 1732.

OBS. *Corolla* lætissimè violacea seu rubicunda pulcherrima mediocris, petalis apice denticulatis. *Misc. nat. l. c.*

M. (Reflexed) foliis subtriquetris præglaucis *retroflex-* scabris, laciniis calycinis petalisque rubicundis *um.*

—distantiusculis, staminibus collectis, cortice 141.

—dealbato.—*M. retroflexum.* Nobis in *misc.* *

nat. p. 71.—Hort. kew. ed. 2. v. 3. p. 236.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. copiosè. A. M.

CULT. ante 1794.

OBS. *Flores* læte rubicundi, petalis basi non imbricatis, sole ardente calycibusque retroflexis.

M. (Deflexed) foliis subtriquetris glaucis sca- *deflex-* briusculis, petalis pallescentibus, basi purpu- *um.*

—reis imbricatis, staminibus collectis; cortice 142.

—cinereo fuscoque.—*M. deflexum.* Willd.

sp. pl. 2. p. 1047.—Hort. kew. ed. 2. v. 3.

p. 236.—Nobis in misc. nat. p. 71.—M.

violaceum. Plant. grass. ic. 84?—*Ficoides*

seu Ficus aizoides, africana, frutescens, folio

glauco parvo, flore violaceo. Brudl. suce.

4. 14. t. 36?

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. copiosè. A. M.

INTROD. 1774.

OBS. *Corolla* priore parum minor, et pallidior, petalis numerosioribus, minus ad solem reflexis, et aliquantillum latioribus.

polyan- M. (Copious-flower'd) foliis parvulis glaucis
thon. triquetris scabris; ramis rectis dumosis, cor-
143. tice rufo, floribus paniculatis numerosissimis
* imbricatis.

HABITAT C. B. S.

G. H. h.

FLORET Augusto A. M. forte copiosissimè om-
nium.

CULT. circa 1803.

OBS. *Suffrutex* erectus valde dumosus bipedalis.
Folia minora quam in præcedente conferta
triquetra obtusa scabra glauca. *Flores* termi-
nales parvuli pallidiusculè rubicundi, inter se
ad solem ardentem imbricatum confertissimi.
Capsula ut in affinibus.

OBS. This brilliant species is often taken for *M.*
glomeratum.

***** ASPERICAULIA. *Caulibus suffrutescen-*
tibus, ramulis plus minusve scabris,
floribus sæpe aurantiis; foliis plus
minusve papulosis.

specio- M. (Specious-flower'd) foliis semicylindricis
sum. subulato-subacutis incurvis papulosis, laciniis
144. calycinis obtusis, petalis atro-coccineis obtu-
* sis, basi viridibus.—*M. speciosum.* *Nobis in*
misc. nat. p. 98.—Hort. kew. ed. 2. v. 3.
p. 250.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M.

CULT. ante 1793.

OBS. This is one of the most beautiful species
in the genus, and if it is not treated too ten-
derly, flowers freely. It is more rambling
than the next, with more incurved and more
pointed leaves; each pair more resembling a
pair of horns.

M. (Glittering) foliis semicylindricis obtusius- *micans.*
culis subrecurvis papulosis, laciniis calycinis 145.
subacutis, petalis acutis atro-coccineis basi
purpureis.—*M. micans. Willd. sp. pl. 2.*
p. 1043.—Hort. kew. ed. 2. v. 3. p. 249.
—*Bot. magaz. 448.—M. micans, flore phœ-*
niceo filamentis atris. Dill. elth. t. 215.
f. 282.—Ficoides capensis, folio tereti argen-
teo petalis perplurimis aurantiacis. Brudl.
succ. 1. p. 9. t. 8.—Ficoides capensis flore
croceo. Pet. gaz. t. 78. f. 9. satis bona.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M.

CULT. 1704.

OBS. This also, if properly grown, is a very beautiful and free-flowering species. It should be renewed from cuttings every summer, watered but little, and seldom in winter, and not be permitted to root through the pots, which should be kept in a sheltered but unshaded southern aspect; and in winter placed in a pit or frame, with the glasses quite off in all fair, not frosty weather: and defended from frosts by mats or litter, but kept in the dark by such cover no longer than for the necessary defence against frost. A slight frost, if the plant is dry, will not injure it. This treatment will suffice for all the genus except the dwarfs; and *M. lacerum*, which is somewhat tender. The soil should be a light and dry one, and but little screened. In short, the common treatment given to *early Mignonette* will answer very well.

M. (Spotted-stalk'd) foliis expansis remotis ob- *macula-*
tus compresso-semicylindricis, caulibus ma- *tum.*
culatis erectis. *Nobis in misc. nat. p. 98.— 146.*

*

M. micans β. *Nobis in misc. nat. p. 98.—Hort. kew. ed. 2. v. 3. p. 250.*

HABITAT C. B. S?

G. H. γ.

FLORET....

INTROD. 1792.

OBS. The flowers of this species I have not yet seen. It resembles both the preceding very much, but is less diffuse, taller, and more erect; its branches are less rough, and more slender and wiry; and its leaves are shorter, less curved, and more horizontal.

pulverulentum. M. (Dusty-leav'd) foliis cylindrico-triquetris obtusis, punctis pulverulentis scabris, calyce sexfido, petalis rubicundis. *Nobis in misc. nat. p. 99.—Hort. kew. ed. 2. v. 3. p. 250.*

147.

*

HABITAT C. B. S.

G. H. δ.

FLORET Mai. A. M. rarissimè.

CULT. 1792.

OBS. *Corolla* facie et magnitudine *M. barbati* infra, petalis soli ardenti meridiano pomeridianoque expansis, profundè rubicundis obtusis integris, basi valde attenuatis albicantibus. *Filamenta* numerosa erecta aurantia basi pallidiora. *Antheræ* lutescentes. *Styli* 6 filamentorum longitudine, apicibus recurvis. *Misc. nat. l. c.*

brevifolium. M. (Short-leav'd) foliis cylindraceis, obtusissimis papulosis patentibus, ramis diffusis. *Hort. kew. ed. 1. v. 2. p. 188.—Willd. sp. pl. 2. p. 1044.—M. brevifolium, β. caule erecto, ramis patentibus, foliis longioribus (quam α.), petalis spatulato-linearibus, profunde rubicundis vel purpureis. Nobis in misc. nat. p. 99.*

148.

HABITAT C. B. S. G. H. h.

FLORET Jul.—Oct. A. M.

INTROD. 1777.

OBS. Magis erectum quam sequente, ramulis magis compactis et numerosioribus, minus divaricatis. *Folia* parum longiora tenuiora numerosiora minus papulosa. *Membranæ calycinæ* purpurascens. *Corolla* mediocris vel parvula pulcherrima profundè et vivacissimè rubicunda. *Misc. nat. l. c.*

M. (Globular) foliis brevissimis expansis sub-globoso-cylindraceis papulosis ramis divaricatis sæpe decumbentibus, staminibus expansis purpurascentibus.—*M. (subglobosum)* foliis subglobosis, caule rigido ramoso, ramulis filiformibus floribus pedunculatis rubris. Nobis in *misc. nat. p. 62.*—*M. capillare.* Thunb. prod. 89. nec aliorum?—*M. brevifolium* α, foliis brevissimis, ramis divaricatis et sæpe decumbentibus. Nobis in *misc. nat. p. 99.* 149.

HABITAT C. B. S. G. H. h.

FLORET Jul.—Oct. A. M.

INTROD. circa 1795.

OBS. This has the shortest leaves of all, in proportion to its size, and the most wiry and divaricating branches.

***** HISPIDA. *Ramulis vel foliis vel apicibus foliorum plus minusve hispidis, et papulosis.*

† HISPICAULIA. *Caulibus pedunculisque hispidis, foliis nudis papulosis.*

M. (Hispid) foliis cylindricis obtusis calyceque hispidulo obconico papulosis, staminibus pistillibus longioribus. Nobis in *misc. nat. p. 100.*— 150.

Icosandria Pentag. Mesembryanthemum.

Hort. kew. ed. 2. v. 3. p. 250.—*Mesembr. hispidum*, α . *Willd. sp. pl. 2. 1044.*—*Plant. grass. cum icon. : mala ex planta magis antiqua.*—*M. papulosum micans flore saturanter purpureo.* *Dill. elth. 289. t. 214. f. 278.*

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Mai.—Oct. A. M. copiosissimè.

CULT. 1704.

OBS. Flores profundè rubicundi pulcherrimi. Caules et pedunculi magis hispidi quam in sequente.

floribundum. M. (Numerous-flower'd) foliis cylindricis obtusis papulosis, calyce hemisphærico papuloso-piloso, floribus imbricatis, staminibus pistillis brevioribus. *Nobis in misc. nat. p. 100.*—*Hort. kew. ed. 2. v. 3. p. 251.*—*Mesembr. hispidum*, β . *Willd. sp. pl. 2. 1044.*—*M. pilosum micans flore purpureo pallidiore.* *Dill. elth. t. 214. f. 280.*

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Mai.—Oct. A. M. copiosissimè omnium.

CULT. 1704.

OBS. The flowers of many *Mesembryanth*s, when expanded, more than cover the whole plant; but in the present species, when not too much drawn up by heat or water, the very capsules touch each other every way. It is unquestionably the most abundant flowerer of all. The petals are far paler than in the last species.

hirtellum.

152.

M. (Large-flower'd Bristly) foliis confertis cylindricis obtusissimis crystallino-papulosis, calyce turbinato papuloso-piloso, staminibus

longitudine pistillorum.—*Nobis in miscel. nat.*
p. 102.—*Hort. kew. ed. 2. v. 3. p. 251.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Nov. A. M.

INTROD. 1792.

OBS. *Corolla* majuscula speciosa læte rubicunda, basi alba.

M. (Striped-flower'd) foliis subulatis semicy- *striatum.*
lindricis, calycibus lanuginosis, staminibus 153.
collectis longitudine pistillorum. *Nobis in* *
miscel. nat. p. 103.—Hort. kew. ed. 2. v. 3.
p. 251.—M. striatum. Willd. sp. pl. 2. 1045.
M. purpureum micans flore purpureo striato.
Dill. elth. 291. t. 215. f. 281.—Bradl. succ. 4.
p. 13. t. 35 incompleta: excluso titulo, seu
synonymo Boerhavi, qui ad M. coccineum
pertinet.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. copiosè.

CULT. 1727.

OBS. The *M. striatum* figured in *Plant. grass.*
t. 132, drawn apparently from an aged woody
plant, can hardly belong to this species, be-
cause its flowers are smaller, less striated, and
paler, with far shorter peduncles, and nearly
depilated calyces. These circumstances can
scarcely all be attributed to the age of the
plant delineated, although most of them may;
as the description and synonyms well accord
with our plant.

It is observable further, that *Persoon*, in his *Sy-*
nopsis, has, under *M. hispidum*, what he de-
notes as a *subspecies* of that plant, by the fol-
lowing name, character, &c.

“ *M. hispidum. * tuberculatum, foliis distinctis*

Icosandria Pentag. Mesembryanthemum.

cylindricis papulosis mollibus, caule pedunculis calycibusque hispidis. *Decand. pl. grass.* An satis diversa a sequente? (*M. striatum*) sed flores non striati D."

Obs. The *M. tuberculatum* of *Mill. dict. ed. 8. no. 32*, has nothing to do with this plant, but belongs to *M. rostratum* as above shewn. Perhaps no *Mesembryanthemum* ever was so much cultivated amongst us as the present species, at the present time; for I am credibly informed by a Nurseryman, that a person in the neighbourhood of Hammersmith grows and sells annually to the trade, and otherwise about seven thousand pots of it. He grows them in frames, and protects them from frost with litter, nearly in manner recommended under the account of *M. micans*, above (but with richer soil and less water): which gives them a short dense growth, and covers them with their beautiful striated, and, from age, various tinted flowers, every spring. And if the other species of this division, but especially *M. hirtellum*, were treated in the same manner, they would become at least equally lucrative, and still more shewy and interesting. These plants, if accompanied by the other more brilliant kinds, are capable of exhibiting a greater and more varied blaze of floral beauty expanded at one time than almost any genus in existence.

†† **HISPIFOLIA.** *Foliis undique plus minusve hispidis, caulibus sæpius nudis.*

echina- **M.** (*Hedgehog*) foliis oblongo-ovatis subtriquetris, laciniis calycinis valde inæqualibus hispidis longitudine petalorum.—*M. echinatum.*
tum.
 154.

Willd. sp. pl. 2. p. 1042.—*Hort. kew. ed.* 2.

v. 3. p. 252.—*Nobis in miscel. nat.* p. 103.

α. Corollis luteis, foliis oblongis subtriquetris luteo-viridibus calycibusque valde hispidis.—

M. echinatum. Plant. grass. cum icone.

β. Corollis albis, foliis ovatis subtriquetris omnino viridibus calycibusque hispidis nudisve.

HABITAT C. B. S.

G. H. ½.

FLORET Mai.—Oct. A. M.

INTROD. 1774.

OBS. The leaves are longer and less gibbous, and yellow, and more hispid with subulate white hairs in α, than in β.

This species sows itself, and many hundreds of seedlings frequently shew themselves in close contact with each other in the garden, near where the old plants have stood, which they invariably resemble; but I have kept none of them to a flowering state.

††† BARBIFOLIA. *Foliis nudis, apice stellato-barbatis.*

M. (Common bearded) procumbens foliis remotis suboblongis exacte semierectis supra planis crassis papulosis apice subquinq̄ueradiatis, ramulis prælongis gracilibus nudis; calyce quinquesido, laciniis perinæqualibus. *barbatum.* 155.

Nobis in misc. nat. p. 104.—

Hort. kew. ed. 2. v. 3. p. 252.—*Plant. grass. cum icone.*—*Willd. sp. pl.* 2. p. 1045.—*M. stellatum. Mill. dict. ed.* 8. no. 14: nec stellatum, *Plant. grass. quæ species sequens est.*

—*M. radiatum ramulis prolixis recumbentibus.*

Dill. elth. t. 194. f. 234.—*Ficoides capensis frutescens folio tumido extremitate stellata flore purpureo. Bradl. succ.* 1. p. 6. t. 5. nec tab.

15, quæ citata est Cl. Willd. nam bene respondet ad sequentem staturâ totâ pilisque pedunculorum—*Ficoides capensis teretifolia, apicibus hirtis.* Pet. gaz. t. 77. f. 9. mala.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M.

CULT. 1705.

OBS. Corolla læte rubicunda; tuberculis quinque atro-viridibus intra florem supra ovarium impositis. Misc. nat. l. c.

OBS. Radices senectæ valde incrassatæ, fibris paucioribus.

stelligerum.

156.

*

M. (lesser Bearded) erecto-decumbens, foliis remotiusculis suboblongis patenti-horizontalibus supra planiusculis crassis papulosis, apice subsexradiatis, ramis longis gracilibus nudis; calyce quinquefido laciniis æquali longitudine.—*M. barbatum* B. foliis foliolisque calycinis sæpius horizontalibus, ramulis brevioribus, tuberculis atro-viridibus intra florem valde numerosis in circulo non interrupto supra ovarium impositis. Nobis in misc. nat. p. 104.—*M. barbatum.* Bot. magaz. t. 70.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M.

INTROD. circa 1793.

OBS. As this plant comes up every year very plentifully from self-sown seed without varying, there is but little doubt of its being an original and distinct species. It may be readily distinguished from the last at all times by its shorter and less procumbent branches; more crowded and far more expanded leaves, which are also rather more bearded, and rather smaller. The calycine segments are likewise more expanded and not quite so large.

M. (small Bearded) foliis cæspitosis canis semiteretibus crassis, papuloso-scabris, apice multiradiatis, basi ciliatis; ramis crassis brevibus, pedunculis calycibusque 6—8-fidis hirsutis.—*M. hirsutum*. Nobis in miscel. nat. p. 105.—*Hort. kew. ed. 2. v. 3. p. 252.*—*M. barbatum* β. Willd. sp. pl. p. 1045.—*M. stellatum*. Plant. grass. cum icone, sed confusum est cum sequente, excluso synonymo *Milleri*, no. 14, quod ad præcedentem omnino pertinet.—*M. barbatum*. Mill. dict. ed. 8. no. 13.—*M. radiatum humile foliis minoribus*. Dill. elth. 190. f. 235.—*Ficoides capensis humilis folio tereti pilis in extremitate stellatis flore purpureo*. Bradl. succ. 2. t. 6. f. 15.

HABITAT C. B. S. G. H. h.

FLORET Sept.—Nov. quotannis copiosè. A. M.

CULT. 1716.

OBS. Flores majusculi læte rubicundi speciosi.

M. (dwarf Bearded) foliis densissime cespitosis semiteretibus papuloso-scabris, apice multiradiatis, basi subciliatis virescentibus; pedunculis calycibusque 6-fidis hirsutissimis, caudice præcrasso brevissimo.—*M. densum*. Nobis in misc. nat. p. 105.—*Hort. kew. ed. 2. v. 3. p. 253.* Bot. magaz. t. 1220.—*M. barbatum* γ. Willd. sp. pl. 2. p. 1046.—*M. radiatum humile foliis majoribus*.—Dill. elth. t. 190. f. 236, sine rarissimis floribus.

HABITAT C. B. S. G. H. γ.

OBS. Flores bis tantum vidi magnos speciosos, læte rubicundos.

***** PERFOLIATA. *Caulibus duris lignosis, foliis valde connatis triquetris, vaginis carnosissimis absque papulis, apicibus (sp. duabus primis exceptis) aduncis; floribus sæpius albis, rarius rubicundis.*

† GEMINATA. *Ramulis brevibus decumbentibus, sæpe geminatis, foliis altè connatis perfoliatis.*

geminatum.

159.

*

M. (Twin-shooted) foliis erectis perglaucis lævigatis ultra medium connatis, marginibus cartilagineis, ramulis dichotomis palmaribus. *Nobis in misc. nat. p. 92.—Hort. kew. ed. 2. v. 3. p. 47.*

HABITAT C. B. S.

G. H. h.

FLORES non vidi.

INTROD. 1792.

OBS. *Rami senecti semipedales dichotomi ascendentes semper omnino geminatis orientes. Folia erecta triquetra crassa, post medium connata.*

forficatum.

160.

M. (Scissar-leav'd) foliis triquetris compressis apice spinulosis, caule ancipiti decumbente. — *M. forficatum. Willd. sp. pl. 2. 1051. (excluso synonymo Jacquinii, quod pertinet ad M. mutabilem nobis.)—Hort. kew. ed. 2. v. 3. p. 240.—Nobis in misc. nat. p. 78.—Jacq. hort. 1. p. 9. t. 26.*

HABITAT C. B. S.

G. H. h.

FLORES Sept. Oct. A. M. rarius.

OBS. Corolla formosa rubicunda vix recte hujus sectionis, nempe species omnino anomala est.

†† AXILLARIA. *Floribus axillaribus solitariis rubicundis.*

M. (great Perfoliate) foliis valde connatis glaucis acuminatis punctatis apice subtus triacanthum. *perfoliatum.* 161.

α. (*triacanthum*) foliis glaucis subtus triacanthis.—M. *perfoliatum.* Mill. dict. ed. 8. no. 19.—Nobis in misc. nat. p. 92.—Hort. kew. ed. 2. v. 3. p. 247.—M. *uncinatum*, β. Willd. sp. pl. 2. 1030.—M. *uncinatum*, β. majus foliis subtus triacanthis. Plant. grass. p. 54.—M. *perfoliatum*, foliis majoribus triacanthis. Dill. elth. t. 193. f. 240.—*Ficoides africana frutescens perfoliata, folio triangulari glauco punctato, cortice lignoso candido, tenui.* Bradl. succ. 5. p. 13. t. 46: nec 26, quæ mihi dubia, vel incognita est, ut olim Cel. Dillenio.

Obs. Flores pauci parvuli, petalis angustissimis rubicundis. Styl. 5.

β. (*monacanthum*) majus, foliis præglaucis, subtus unidentatis. Nobis in misc. nat. p. 92.—*Ficoides africana frutescens, perfoliata, folio triangulari, glauco, punctato, cortice lignoso, candido, tenui.* Bradl. succ. 3. p. 8. t. 26. figura dextra.

Obs. Bradley gives the same name (from Boerhaave's Ind. ult. 290. no. 16.) to this as to α, but still describes them as distinct species; which, if his figure is true, must really be the case: for it appears three times the size of the other, more glaucous, and far less toothed. But, although one species (M. graniforme) is admitted above, on the sole authority of this careless author, I am not in-

Icosandria Pentag. Mesembryanthemum.

clined to do so by the present plant; especially after what has been remarked concerning him in another place: viz. Transactions of the Entomological Society of London, p. 24 and 25.

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Aug. A. M. at rarissimè.

CULT. 1714.

OBS. When *M. perfoliatum* and the following species flowered with me, I noted not that their flowers remained open night and day, which is very probable; as I have distinctly observed that to be the case in the closely allied *M. viride*. Dillenius, whose accurate and penetrating eye scarcely any thing escaped, is also silent on this point. The rare occurrence of these flowers is a poor excuse for this inattention on my part. But once only have I seen them.

uncinatum.

162.

M. (lesser Perfoliate) foliis valde connatis subglaucis punctatis apice subtus diacanthis.—*M. uncinatum*. Mill. dict. ed. 8. no. 18.—*Nobis in misc. nat. p.* —*M. uncinatum*, α . Willd. sp. pl. 2. 1050.—*M. uncinatum minus*, foliis subtus diacanthis. Plant. grass. cum icone.—*M. perfoliatum*, foliis minoribus diacanthis. Dill. elth. t. 193. f. 239.—*Ficroides africana folio triangulari glauco perfoliato brevissimo apice spinoso*. Bradl. succ. 3. p. 8. t. 27.

HABITAT C. B. S.

G. H. $\frac{1}{2}$.

FLORET Aug. A. M. rarissimè.

CULT. 1725.

viride.

163.

*

M. (green Perfoliate) foliis integerrimis valde connatis perviridibus impunctatis lævibus,

apicibus uncinato-recurvis; petalis rubicundis. *Nobis in misc. nat. p. 93.—Hort. kew. ed. 2. v. 3. p. 247.*

HABITAT C. B. S.

G. H. ½.

FLORET Jul. per noctem et diem.

INTROD. 1792.

OBS. *Petala* pallide rubicunda; interiora numerosa erecta setacea alba, apicibus recurvis sæpe purpurascentibus. *Filamenta* pauca brevialba. *Antheræ* lutæ *Styli* septem subulati, apicibus patentibus setaceis. *Cap-sula* septemlocularis. *Misc. nat. l. c.*

††† PANICULATA. *Floribus (sp. duabus exceptis) albis numerosis paniculatis, foliis plerumque plus minus glaucis, vaginis minus carnosis, sed lineâ longitudinali magis exaratis quam in divisione præcedente, ramulis sæpe subtetragonis.*

M. (least Perfoliate) foliis trilinearibus et ultra *tenellum*.
patentibus tenuibus vaginisque foliorum scabris, ramis filiformibus. *Nobis in misc. nat. p. 94.—Hort. kew. ed. 2. v. 3. p. 248.* 164. *

HABITAT ad Caput Bonæ Spei.

G. H. ½.

FLORET Aug. copiosè. A. M.

INTROD. 1792.

OBS. *Flores* parvi (sex-lineares) albi.

M. (rigid Perfoliate) foliis subtrilinearibus horizontalibus vaginisque foliorum glabris, carina apice scabra, ramis rigidissimis patentibus. *Nobis in misc. nat. p. 95.—Hort. kew. ed. 2. v. 3. p. 248.* 165. *

HABITAT ad Caput Bonæ Spei.

G. H. ½.

FLORET Aug. copiosè. A. M.

CULT. 1793.

OBS. Præcedenti simillimum, at elatius, ramis et ramulis magis rigidis firmisque, nunquam decumbentibus. *Flores* albi parvi.*parviflorum.*

166.

*

M. (small-flower'd Perfoliate) foliis semuncialibus glabris erectis carina minime serrulata, caule tripedali ramisque erectis. *Nobis in misc. nat. p. 95.—Hort. kew. ed. 2. v. 3. p. 248.*

HABITAT C. B. S.

G. H. ½.

FLORET Aug. A. M.

CULT. 1800.

OBS. *Flores* valde exigui, at concinni, trilineares albi.*vaginatum.*

167.

*

M. (Sheathed) foliis subuncialibus patentibus vaginisque virescentibus glabris, angulis superne asperis.—*M. vaginatum. Nobis in misc. nat. p. 95.—Hort. kew. ed. 2. v. 3. p. 248.*

HABITAT C. B. S.

G. H. ½.

FLORET Aug. A. M.

INTROD. 1802.

OBS. *Suffrutex* bipedalis erectus; ramuli senecti decumbentes patentes; juniores obsolete quadrangulares virescentes, et aliquantillum lucentes. *Flores* paniculati parvi albi numerosi ut in præcedentibus, vel paulo majores.β, (*politum*) foliis subsescuncialibus subpatentibus vaginisque viridibus lævigato-lucidis, angulis superne asperis.

INTROD. 1802, a C. B. S.

OBS. Forte propria species. Majus; ramulis crassioribus, foliis vaginisque longioribus, minus patulis, longèque lucidioribus, seu absolute politis. *Flores* Aug. A. M. copiosi parvi albi præcedentium.

M. Imbricated) foliis glaucis remotis lævibus *imbric-*
punctulatis sescuncialibus apicibus aduncis, tum.
calycibus turbinatis basi valde attenuatis.— 168.

*M. imbricatum. Nobis in misc. nat. p. 96.— **

Hort. kew. ed. 2. v. 3. p. 248.

HABITAT C. B. S.

G. H. 2.

FLORET Jul. copiose. A. M.

INTROD. 1792.

OBS. *Flores albi parvuli.*

β : majus omni parte.

OBS. This variety very nearly unites the present
 with the next species: indeed the fine gradations
 between the whole of the species in this
 division are very remarkable; but they would
 probably be at least as gradual in most others,
 if we were in possession of *all the species*
 which the fingers of Omnipotence have finished.

Some modern Botanists (if we may judge by
 their works) would unite all the present division
 into one species. Not so, however, the
 discriminating Dillenius; or far-experienced
 Miller.

M. (Many-flower'd) foliis glaucis remotis læ- *multiflo-*
vibus punctatis bipollicaribus apicibus adun-
cis, calycibus cylindricis basi subattenuatis. rum. 169.

Nobis in misc. nat. p. 95.—Hort. kew. ed. 2.

v. 3. p. —Pluk. phyt. t. 117. f. 1.—Fi-

coides africanum Mesembryanthemum, seu
Ficus Aizoides frutescens floribus albis parvis
umbellatis. Pluk. almugest. 149.

HABITAT ad Caput Bonæ Spei.

G. H. 2.

FLORET Jul. A. M. copiose.

OBS. Præcedenti solum differt staturâ majore,
 figurâque capsularum. *Flores albi parvuli.*

- foliosum*. M. (many-leav'd Perfoliate) foliis subglaucis lævibus confertis uncialibus obtusis mucronulo subrecurvo, vaginis apice incrassatis: corollis rubicundis.—*M. foliosum*. Nobis in misc. nat. p. 97.—*Hort. kew. ed. 2. v. 3. p. 249.*

HABITAT ad Caput Bonæ Spei. G. H. 7.

FLORET Sept. A. M. at rarissimè.

INTROD. 1802.

Flores (deflorati) communicavit Dom. Howard, terminales mediocres in ramis majoribus, sed non in summo seu principe ramo, sæpe ternati pedunculati, rarius quinati (ex divisione medii pedunculi, qui uncialis est et teres,) supernè incrassati, et medio 4—6 bracteis foliiformibus fere imbricatis instructi. *Pedunculi* laterales breviores basi bibracteati. *Calyx* quinquesfidus, laciniis duabus membranaceis ut in plurimis. *Petala* usque ad basin altè rubicunda costâ saturatiore; lata ratione longitudinis, obtusa, subinde emarginata. *Filamenta* petalorum colore. *Antheræ* (defloratæ) pallidæ. *Styli* quinque (deflorati) subulati expansi ramentacei lutei, apicibus mucroniformibus recurvatis.

- tumidulum*. M. (tumid Perfoliate) foliis remotis virescentibus lævibus subsescuncialibus apicibus subrecurvulis, vaginis apice tumidulis: ramis patentibus, corollis rubicundis.

171.

*

HABITAT C. B. S.

G. H. 4.

FLORET Mar. rarissimè.

INTROD. circa 1802.

OBS. Communicavit Dom. Howard. *Flores* non vidi, sed terminales rubicundos, *calyce* quinquesfido, fere præcedentis, secundum Dom. Howard.

Inter præcedentem et sequentem, at omnino gracilius.

M. (Umbel'd) foliis subglaucis scabrido-punctatis remotis biuncialibus gracilibus apicibus recurvis, vaginis apice tumidis: corollis albis. *umbellatum.* 172.

—*M. umbellatum.* Willd. sp. pl. 2. p. 1038.

—*Hort. kew. ed. 2. v. 3. p. 249.*—*Nobis in misc. nat. p. 97.*—*Mill. dict. ed. 8. no. 6.*—

M. frutescens floribus albis umbellatis. Dill. elth. 227. t. 208. f. 266.—*Bradl. succ. dec. 5. t. 44. exclusâ totâ descriptione, quæ omnino pertinet ad Othonnam tenuissimam Linn.*

OBS. This is the last of the Perfoliate shrubby species. Nearly the whole of them are perhaps the hardiest plants of the Genus, and some of them I have known survive a winter on uncovered rock-work. And I conceive they would flourish well on a bank of lime rubbish a foot thick, sloping from the base of a south wall, planted close to the bricks, and defended in the most severe weather with a little loose straw. Those which survived would produce more flowers than if nursed up in a Greenhouse.

Indeed Miller, speaking of the more hardy species of this genus, says:

“The other shrubby kinds may be sheltered in winter under a common frame, where, if they are protected from frost and wet, it is all they require; for the hardier these are treated, the greater quantity of flowers they will produce: and some of the sorts are so hardy, as to live abroad when placed close to a good aspected wall, and in a poor dry soil; so that where there is room to dispose them against a wall,

Icosandria Pentag. Mesembryanthemum.

and the border is raised with lime rubbish to prevent their rooting deep and growing luxuriant, they may be preserved through the winter with very little shelter, and these will flower much better than those under cover."

Mill. dict. l. c.

***** ADUNCA. *Foliis distinctis (sine vaginis incrassatis) absque papulis, apicibus plus minusve aduncis, petalis rubicundis, caulibus suffrutescentibus plus minusve erectis (excepto ultimo replante).* Forte genus proprium.

† INCLAUDENTIA. *Floribus nocte et die expansis, bracteis basi latissimis, foliis compresso-triquetris plus minusve scabrido-punctatis, ramulis valde compressis.*

bracteatum. M. (Double-bracted) foliis viridibus, bracteis quatuor late ovatis carinatis calycem amplexentibus, petalis basi albis, ramulis fusco-rubris.—*M. bracteatum. Hort. kew. ed. 1. v. 2. p. 185. & ed. 2. v. 3. p. 216. (excluso synonymo quod sequens est).—Nobis in misc. nat. p. 90 —M. bracteatum. Willd. sp. pl. 2. p. 1050. (excluso synonymo Dillenii, quod sequens est.)*

HABITAT ad Caput Bonæ Spei. G. H. h.
FLORET Aug. fin. ad init. Jan. per noctem et diem copiosè pulcherrimè.

INTROD. 1774.

OBS. As I first saw this species at Kew, it is most likely the *M. bracteatum* of the *Hort. kew. ed. 1.* which in that case wrongly cites *Dillenius*, whose figure belongs to *M. radiatum*, which I never observed at Kew.

M. (Radiated) foliis glaucescentibus, bracteis *radiato-ovatis* pedunculos superne amplectentibus, petalis omnino rubicundis, ramulis subconfertis canescentibus. — *M. radiatum. Nobis in misc. nat. p. 90. — Hort. kew. ed. 2. v. 3. p. 246. — M. uncinatum scabrum petalis purpureis circumactis. Dill. elth. t. 197. f. 249.* 174. *

HABITAT C. B. S. G. H. h.

FLORET Aug. — Nov. per noctem diemque.

CULT. 1732.

OBS. *Corolla* tota rubicunda, major quam in priore. *Rami* confertiores.

M. (Rough-compressed) foliis glaucescentibus *compressæquilateri-triquetris* scaberrimis, bracteis *ovato-acutis* pedunculos superne amplectentibus, petalis omnino perrubicundis. *Nobis in misc. nat. p. 91. — Hort. kew. ed. 2. v. 3. p. 246.* 175. *

HABITAT C. B. S. G. H. h.

FLORET Aug. — Nov. copiosè.

CULT. 1792.

OBS. Dignoscitur primo intuitu, foliis valde scabris.

M. (Two-edged) ramis decumbentibus ancipitibus brunneo-canescens; foliis acinaciformi-triquetris, lateribus inferne submembranaceis; punctis pellucidis magnis elevatis. *anceps.* 176. *

HABITAT C. B. S. G. H. h.

FLORET Sept. Oct.

INTROD. 1811, a Dom. Beak.

Communicavit Dom. Evans. — *Flores* perfectos (rubicundos) non vidi.

OBS. *M. stellato* simillimum, sed minus erectum

tum foliis duplo crassioribus, nec longioribus, punctis longè majoribus elevatioribus; carinâ lateribusque magis pellucetibus.

stellatum.

177.

*

M. (Starry) foliis glaucescentibus gracilibus scabriusculis bracteis ovato-acutis calycem fere amplectentibus, petalis rubicundis, ramulis strictissimis. *Nobis in misc. nat. p. 91.*—*Hort. kew. ed. 2. v. 3. p. 216.*

HABITAT C. B. S.

G. H. h.

FLORET Aug.—Nov. copiosè.

OBS. A præcedentibus dignoscitur ramulis strictioribus, foliisque gracilioribus.

†† CLAUDENTIA. *Floribus vespere claudentibus, foliis lævibus.*

virgatum.

178.

*

M. (Twiggy) foliis triquetro-compressis acutis subglaucis remotis, ramulis virgatis elongatis distantibus. *Nobis in misc. nat. p. 88.*—*Hort. kew. ed. 2. v. 3. p. 245.*

HABITAT C. B. S.

G. H. h.

FLORET Feb.—Apr. A. M. perparcè.

CULT. 1793.

OBS. The long, twiggy, gangling branches easily distinguish this species from all others.

curvifolium.

179.

*

M. (Crook'd-leav'd) foliis basi expansis, tunc incurvo-recurvis compresso-semiteretibus subulatis, ramulis decumbentibus asperiusculis angulato-compressis. *Nobis in misc. nat. p. 88.*—*Hort. kew. ed. 2. v. 3. p. 245.*

HABITAT C. B. S.

G. H. h.

FLORET Oct. A. M.

CULT. 1799.

OBS. *Flores* pulchri vivacissimè rubicundi, soli ardenti solum aperti.

M. (Thorn-leav'd) ramulis foliisque cylindricis *spini-*
subulatis spiniformibus erectis, apicibus sub- *forme.*
recurvis, pedunculis carinisque bractearum 180.
scabriusculis. Nobis in misc. nat. p. 87.— *
Hort. kew. ed. 2. v. 3. p.

HABITAT C. B. S. G. H. η .

FLORET Sept. Oct. valde infrequens.

INTROD. circa 1793.

OBS. Corolla parvula, petalis læte rubicundis,
 basi pallidioribus.

β minus.

M. (Hook-leav'd) foliis confertis semicylindricis *adun-*
cis acuminatis, apice valde recurvis, ramulis cum.
erectis præconfertis. M. aduncum. Nobis in 181.
miscel. nat. p. 87.—Hort. kew. ed. 2. v. 3. *
p. 245.

HABITAT C. B. S. G. H. γ .

FLORET Feb. Mar. valde infrequens.

INTROD. 1795.

OBS. Corolla parva, petalis rubicundis apicibus
 saturationibus.

M. (Thready-stemm'd) foliis confertissimis se- *filicaule.*
micylindricis acuminatis, caulibus filiformibus 182.
cespitosis reptantibus.—M. filicaule. Nobis *
in misc. nat. p. 87.—Hort. kew. ed. 2. v. 3.
p. 844.

HABITAT C. B. S. G. H. η .

FLORET Sept. A. M. rarissimè.

OBS. Flores parvi pulchelli, petalis intus pallide
 rubicundis, extus saturationibus præcipue ad
 apicem.

***** RUBICUNDA. *Ramis suffrutescentibus glabris foliis plus minus triquetris nudis absque papulis, apicibus rectis: petalis (M. serrato et M. dilutato exceptis) rubicundis.*

OBS. It will be perceived that I have attempted to improve the distribution of this and other difficult Sections; perhaps unsuccessfully; but with a view to enable the collector of these plants, to arrange them as naturally as possible. But it is well observed by adepts in botanic science, that nature has not always connected *species*, nor even genera, or orders, in continuation like the links of a chain; but rather in a tessellated manner, more analogous to the meshes of a net. *Non catenatim: sed reticulatim.* Those who have most laboured in this department, will alone feel the force of these remarks.

† CARINALIA: *suffrutices, erecti, foliorum carinis valde conspicuis, sive auctis, rarissime integris.*

maximum.

183.

*

M. (great Crescent-leav'd) foliis confertis præcompresso-triquetris incurvo-lunulatis glau-
cissimis, caule lignoso — *M. maximum.* *Nobis in misc. nat. p. 68.—Hort. kew. ed. 2. v. 3. p. 233.*

HABITAT C. B. S.

G. H. h.

FLORET Mar. A. M.

INTROD. 1787.

OBS. Non rectè hujus divisionis. Species anomala.

M. (Ragged-keel'd) foliis confertis glaucis compresso-triquetris acinaciformibus, carina cartilagineo-lacerata, petalis calyce magno longioribus inclaudentibus.—*M. lacerum*. *Nobis in misc. nat. p. 66.—Hort. kew. ed. 2. v. 3. p. 234.* *lacerum*. 184. *

HABITAT C. B. S.

G. H. h.

FLORET Jun.

OBS. *Flores* magni speciosi rosei, semper aperti.

OBS. The showy flowers of this fine species have been sometimes worn as ornaments in the head-dresses of ladies, for which they are well calculated, on account of their not closing, like those of most other species; and being sufficiently succulent to bear pinning to the hair, &c. for many hours without withering or fading; which would happen to any but succulent flowers. The warmth and the light of a ball-room would show them off with considerable effect. Perhaps that vegetable diamond, the Ice plant, might be advantageously combined with them, especially by candle-light. *M. lacerum* is rather more impatient of cold than the other woody kinds.

M. (Saw-keel'd) foliis subulatis triquetris punctatis distinctis, angulo carinali retrorsum serrato, petalis luteis. *Willd. sp. pl. 2. p. 1049.—Nobis in misc. nat. p. 68.—M. serratum flore acetabuliformi flore luteo. Dill. elth. t. 192. f. 238.—Yellow Cape Fig-Marygold with a light notched leaf. Pet. gaz. p. 8. t. 78. f. 2.* *serratum*. 185. †

HABITAT C. B. S.

G. H. h.

FLORET Jun. Jul. *Dill. l. c.*

CULT. 1707, by Mr. Gardiner of the Temple Garden, and by Sherrard at Eltham, in 1732.

OBS. I have not yet seen this species, but it probably may still exist in some country collection.

heteropetalum. M. (Various-petal'd) foliis confertis glaucis falcato-acinaciformibus, angulis cartilagineis, carina lacera, petalis inæqualibus calyce magno brevioribus. *Nobis in misc. nat. p. 67.*—*Hort. kew. ed. 2. v. 3. p. 235.*

186.

*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Aug. A. M.

INTROD. 1794.

a. Corollis albis exiguis.

β. Corollis rubicundis exiguis.

mutabile. M. (Changeable) foliis distinctis confertis triquetris punctatis, carina gibbosa, angulis integris cartilagineo-marginatis. *Nobis in misc. nat. p. 74.*—*Hort. kew. ed. 2. v. 3. p. 237.*—*Mesembr. filamentosum. Plant. grass. cum icone; nec aliorum.*—*M. forficatum. Jacq. hort. v. 1. t. 26.*

187.

*

HABITAT C. B. S.

G. H. h.

FLORET Jul.—Sept. A. M.

CULT. 1792.

OBS. *Flos* parvus inelegans, at major quam in præcedente.

OBS. 2. I purchased this species above twenty years ago, in a Yorkshire nursery, by the name of *M. dolabriforme*, minus.

marginatum. M. (White-edg'd) foliis triquetris subacinaciformibus, marginibus dealbatis, carina subdilatata.—*M. marginatum. Nobis in misc. nat. p. 73.*—*Hort. kew. ed. 2. v. 3. p. 237.*

188.

*

HABITAT C. B. S. G. H. h.

FLORET....

INTROD. ante 1793.

OBS. Præcedenti multoties minus. *Suffrutex* pygmæus, subquadriuncialis, radice fibrosa. *Caulis* suberectus paulo ramosus. *Rami* erecti. *Folia* inter *M. microphyllum* et *M. mutabile*, albo marginata. *Misc. nat. l. c.*

M. (inclosing Delta-leav'd) foliis triquetris sub- *inclau-*
deltoidibus lævibus perviridibus, carina gib- *dens.*
bosa, corollis includentibus, petalis interiori- 189.
bus valde abbreviatis imbricatisque. *Nobis in* *
bot. repos. v. 6. 388.

In the above-cited page of *Bot. rep. M. rostratum* is mentioned as having flowered with Mr. Ross. This however was a mistake, as Mr. R.'s plant proved to be a new species; and is described above under the name of *M. bibracteatum*.

HABITAT C. B. S. G. H. h.

FLORET Jul.

INTROD. 1805.

OBS. *Flores* semper aperti, pulcherrimi, saturatissimè rubicundi, *petalis* latioribus quam in plurimis, nitidioribus magisque gradatim abbreviatis.

OBS. 2. This species is perhaps better calculated to be worn in the manner of an artificial flower, while yet alive, than *M. lacerum* above enumerated; as it is more beautiful, and far more shining: or they may be used together. And if fragrance is also wanted, any flowers of the division NOCTIFLORA will answer the purpose, during the evening or night; but the NOCTIFLORA are closed in the day-time.

The blossoms of the whole Section INCLAU-
DENTIA, are likewise applicable in an orna-
mental manner, but possess no scent.

*caules-
cens.*
190.

M. (smooth-keel'd Delta) foliis perglaucis con-
fertis triquetro-deltoidibus, lateribus minime
dentatis, carina integra.—*M. caulescens*. Mill.
dict. ed. 8. no. 12.—*Nobis in misc. nat. p. 74.*
—*Hort. kew. ed. 2. v. 3. p. 237.*—*M. deltoides*
γ. Willd. sp. pl. 2. p. 1052.—*M. deltoides B.*
simplex angulo carinali integro. Plant. grass.
cum icone.—*M. deltoides non dorso, sed late-*
ribus muricatis. Dill. elth. t. 195. f. 243,
244.

HABITAT C. B. S.
FLORET Mai. A. M.
CULT. 1731.

G. H. h.

OBS. The numerous pale-rosy flowers of this
and the two following species, smell agree-
ably when expanded, resembling the fra-
grance of White-thorn blossoms, or new
made Hay.

deltoides.
191.

M. (great Delta) foliis glaucissimis confertis
triquetro-deltoidibus, lateribus carinaque den-
tatis, carina bractearum foliolisque calycinis
integris.—*M. deltoides. Nobis in misc. nat.*
p. 74.—*Hort. kew. ed. 2. v. 3. p. 238.*—*M.*
deltoides β. Willd. sp. pl. 2. p. 1052.—*M.*
deltoides A. triplex, angulis tribus dentatis.
Plant. grass. cum icone bono, excluso syno-
nymo Dillen. 246.—*M. deltoides et dorso et*
lateribus muricatis majus. Dill. elth. 196.
f. 245 et 247.

HABITAT C. B. S.
FLORET Mai. A. M.
CULT. 1731.

G. H. h.

M. (small Delta) foliis confertissimis deltoidi-*murica-*
bus, bracteis foliolisque majoribus calycinis tri-*tum.*
quetris glaucis, et trifarie denticulatis. *Nobis* 192.
*in misc. nat. p. 75.—Hort. kew. ed. 2. v. 3. **
p. 238.—M. deltoides. Willd. sp. pl. 2.
p. 1052.—M. deltoides A. triplex, angulis
tribus dentatis. Plant. grass. absque icone,
(excluso synonymo. Dill. elth. f. 245, &
247.)—M. deltoides et dorso et lateribus mu-
ricatis minus. Dill. elth. t. 195. f. 246.

HABITAT ad Caput Bonæ Spei. G. H. h.

FLORET Mai. A. M.

OBS. Præcedenti duplo minus.

†† MICROPHYLLA. *Suffrutices erecti, foliis*
parvis, et sæpius falcatis gracilibus, et
sp. (prima excepta) glaucis. Flores parvuli.

M. (Small-leav'd) foliis connatis triquetris acu-*micro-*
minatis subaristatis punctatis perviridibus basi *phyllum.*
intus pustulatis, ramulisque confertissimis. 193.
*Nobis in misc. nat. p. 73.—Hort. kew. ed. 2. **
v. 3. p. 237.

HABITAT C. B. S.

G. H. h.

FLORET Mai. at rarissimè.

INTROD. ante 1795.

OBS. *Suffrutex* dodrantalis. *Corolla* parva pul-
chella, *petalis* saturatè rubicundis, interioribus
setaceis, apice saturationibus. *Antheræ* lu-
tescentes. *Styli* quatuor sordide virides, api-
cibus patentibus subulatis. *Misc. nat. l. c.*

OBS. Foliorum carina subinde minutim serru-
lata.

M. (Mucronated) foliis connatis confertis glau-*mucro-*
cescentibus oblongo-ovatis acutis punctatis, *natum.*
apice triquetris mucronatis. *Nobis in misc. 194.*
*nat. p. 73.—Hort. kew. ed. 2. v. 3. p. 237. **

HABITAT C. B. S.

G. H. h.

FLORET....

INTROD. 1794.

OBS. *Suffrutex* ramosissimus 1—3-uncialis. *Folia* trilinearia.—A præcedente primo intuitu dignoscitur, *foliis* glaucescentibus mucrone niveo conspicuo. *Flores* non vidi.

pulchellum.

195.

*

M. (handsome Small-leav'd) *foliis* connatis valde confertis glaucis acute-triquetris cuspidatis, marginibus ciliato-pubescentibus, caulibus procumbentibus.—*M. pulchellum. Nobis in misc. nat. p. 74.—Hort. kew. ed. 2. v. 3. p. 237.*

HABITAT C. B. S.

G. H. h.

FLORET Apr. A. M. at rarissimè.

INTROD. 1797.

OBS. *Corolla* parva pulchella, *petalis* intus pallidè rubicundis, apicibus extusque saturatioribus, inæqualibus, sæpe emarginatis. *Misc. nat. l. c.*

falcatum.

196.

M. (small Sickle-leav'd) *foliis* minutis distinctis perglaucis falcatis compresso-triquetris, ramulis numerosis filiformibus.—*M. falcatum. Willd. sp. pl. 2. p. 1046.—Hort. kew. ed. 2. v. 3. p. 236.—Nobis in misc. nat. p. 72.—M. falcatum minimum, flore purpureo parvo. Dill. elth. 288. t. 213. f. 275. & 276.—Ficoides afric. folio triangulari ensiformi brevissimo, flore purpurascente. Bradl. succ. 5. 9. t. 42.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Jul.

CULT. 1727.

OBS. *Flores* parvuli numerosi rubicundi, fragantes, ut in *Cratægo Oxyacanthâ.*

M. (Cluster-flower'd) foliis triquetris compressis glaucescentibus incurvis utraque attenuatis, *glomeratim*.
pedunculis ramulisque filiformibus compressis erectis.—*M. glomeratum*. Willd. sp. pl. 2. p. 1046.—*Hort. kew. ed. 2. v. 3. p. 235.*—*M. falcatum minus, flore carneo minore*. Dill. *elth.* 281. t. 213. f. 274. 197.

HABITAT C. B. S. G. H. h.

FLORET Jun. Jul. copiosissimè fere omnium.
A. M.

CULT. 1732.

OBS. This sometimes occurs in collections under the name of *M. multiflorum*, but it hardly possesses a single character of that species.

M. (thick Sickle-leav'd) foliis parvulis crassis *falciformiter-falcatis* grandipunctatis glaucis. 198.

HABITAT C. B. S. G. H. h. *

FLORET Jul. Aug. copiosè. A. M.

INTROD. circa 1805.

OBS. Communicavit Rev. Dom. Kirby.

Caules suffruticosi spithamei ramosi, demum decumbentes, cortice plus minusve rufo. *Flores* terminales subfastigiati, fragrantés ut in *Oxyacanthâ*, rubicundi sesquiunciales concinni. *Pedunculi* longiusculi teretes, superne incrassati. *Calyx* quinquefidus inæqualis laciniis minoribus membranâ magnâ præexustâ. *Petala* angustè linearia imbricata, apicibus inæqualibus, interiora valde diminuta. *Filamenta* alba erecta calyce breviora. *Anthæræ* luteæ. *Styli* quinque *staminibus* breviores erecti crassi cuspidati, angulatum ramentacei. *Germen* turbinatum quinqueloculare.

††† PALLIDIFLORA. *Foliis mediocribus glaucis glabris obtusè-triquetris falcato-incurvis punctatis, compressis : floribus paniculatis pallidè-rubicundis, majusculis.*

decumbens.

199.

*

M. (Decumbent) foliis triquetris compressis incurvis perglaucis, basi valde attenuatis, ramis teretibus decumbentibus robustulis.—*Mesemb. decumbens. Weston. catal. 162.—Mesemb. foliis acinaciformibus connatis lævibus, caule decumbente. Mill. dict. ed. 7. no. 26.—Nobis in misc. nat. p. 69.—Hort. kew. ed. 2. v. 3. p. 234.*

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Oct. A. M. copiosè.

CULT. ante 1759.

OBS. *Corolla speciosa bipollicaris fere albicans, seu dilutissima omnium rubicundorum.*

incurvum.

200.

*

M. (Incurved) foliis triquetris compressis perglaucis utraque attenuatis acinaciformibus, caule erecto, ramulis teretibus gracilibus effusis.—*M. incurvum. Nobis in misc. nat. p. 69.—Hort. kew. ed. 2. v. 3. p. 235.*

HABITAT C. B. S.

G. H. h.

FLORET Jun. A. M.

INTROD. 1802.

OBS. *Flores magis rubicundi quam in præcedente, at simillimi. Styli quinque crassi valde ramentacei cuspide parva carnosa infra apicem. Filamenta alba brevia. Antheræ luteæ parvæ stylorum altitudine.*

β. (*dilatans*) foliis triquetris incurvis subgracilibus glaucis, paucis infernè gibbosim-dilatantibus, senectissimis deflexis.

HABITAT C. B. S.

G. H. h.

FLORET Sept. Oct. A. M.

INTROD. circa 1805.

OBS. Communicavit Dom. Howard. Foliis minus glaucis fere duplo longioribus et crassioribus, singulariter subinde dilatantibus; floribus pallidè rubicundis speciosis. Forte propria species.

OBS. 2. I have another variety with paler flowers.

M. (Crowded-leav'd) foliis triquetris confertis *confer-*
robustis incurvis glaucis, caule erecto valde *tum.*
ramoso. 201.

HABITAT C. B. S.

G. H. h.

*

FLORET Sept. Oct. A. M.

INTROD. circa 1805.

OBS. Communicavit Dom. Howard. *Frutex* erectus dense ramosus. *Folia* breviora at crassiora glauciora longeque confertiora quam in ultimo, ramis numerosioribus. *Flores* speciosi pallidè rubicundi numerosi.

OBS. 2. *Folia* subinde medio dilatantia, fere ut in var. β præcedentis.

†††† TERETIUSCULA. *Frutices erecti, foliis triquetro-teretiusculis glaucis, floribus rubicundis (ultimo excepto).*

M. (Upright shrubby) foliis subconfertis tereti- *stipula-*
triquetris subulatis incurvis glaucis basi mar- *ceum.*
ginatis.—*M. stipulaceum.* Willd. sp. pl. 2. 202.
p. 1040. Hort. kew. ed. 2. v. 3. p. 223.—
Nobis in miscel. nat. p. 65—*Mesemb. frutescens, flore purpureo rariore.* Dill. elth. 279.
t. 209. f. 267 et 268.

HABITAT C. B. S.

G. H. h.

FLORET Mai. Jun.—Oct. rarius. A. M.

CULT. 1723.

Obs. *Flores* subsolitarii terminales speciosi bipollicares læte rubicundi, infra pallidiores.

Haworthii.

203.

M. (Haworth's) foliis subconfertis subulatis tereti-triquetris subincurvatis glaucis.—*M. Haworthii. Donn. hort. cantab. ed. 2—6. p. 66. —Nobis in misc. nat. p. 65.—Hort. kew. ed. 2. v. 3. p. 233.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Jan. A. M.

CULT. 1793.

Obs. Frutex erectus bipedalis. *Flores* terminales subsolitarii magni tripollicares, rubicundi basi albi. *Styli* quinque brevissimi robusti.

læve.

204.

M. (White-wooded) foliis confertis cylindraceutis obtusis arcuatis perglaucis, calycibus quinquefidis laciniis oblongis obtusis. *Nobis in misc. nat. p. 64.—M. læve, foliis cylindraceutis obtusis amplexicaulibus lævibus, calycibus quinquefidis, laciniis oblongis obtusis. (Corolla purpurea.) Willd. sp. pl. 2. p. 1044?—Hort. kew. ed. 1. v. 2. p. 187?—M. (corallinum) foliis teretibus glabris, caule stricto ramosissimo, floribus albis. Thunb. prod. 89?*

HABITAT C. B. S.

G. H. h.

FLORES non vidi.

INTROD. 1774.

Obs. This species strikes less easily from cuttings than most others, and although possessed of stiff upright woody shoots of one or two feet in height, never survives the third winter with me; but rarely dies under that age; and then appears to perish first at the root; for the branches survive many weeks after the root is dead. I have not heard of its flowering any where; nor is its bark white, but fus-

cous, which now causes me to doubt its being the true *M. læve* of Hort. kew. above cited. Perhaps if watered in a pan only in winter, and sparingly, and not on the top of its pot, it might survive longer, and then produce its flowers.

M. (Thorny) foliis triquetro-teretibus punctatis *spino-*
distinctis, spinis ramosis terminalibus.—*M. sum.*
spinosum. Willd. *sp. pl.* 2. p. 1047.—*Hort.* 205.
kew. ed. 2. v. 3. p. 233.—*Nobis in misc.*
nat. p. 66.—*M. frutescens, ramis trican-*
this. Dill. *elth.* 276. t. 208. f. 265.—*Ficoi-*
des africana, aculeis longissimis et foliolis nas-
centibus e foliorum alis. Bradl. *succ.* 41.
t. 39.

HABITAT C. B. S. G. H. h.

FLORET Jun.—Sept. A. M.

CULT. 1714.

OBS. *Frutex* bipedalis ramis duris. *Spini* præ-
singulares in hoc genere, subtrichotomi, pri-
mo terminales, mox laterales, durissimi. *Flo-*
res parvi rubicundi.

M. (Dilated) foliis glaucis compresso-trique- *dilata-*
tris flexo-recurvantibus, angulo carinali post *tum.*
medium sæpe dilatato. *Nobis in misc. nat.* 206.
p. 68.—*Hort. kew. ed.* 2. v. 3. p. 234. *

HABITAT C. B. S. G. H. h.

FLORET Jul. A. M. at infrequens.

CULT. 1795.

OBS. *Frutex* erectus tripedalis, ramis duris.
Flores terminales ternati minuti, *petalis* uni-
serialibus argenteo-albis lucidis. Non rectè
hujus divisionis, nempe fere anomalum.

AIZOON. *Gen. pl.* 861.

Calyx 5-partitus. *Petala* 0. *Capsula* supera,
5-locularis, 5-valvis.

canariensis. A. (Purslane-leav'd) foliis cuneiformi-ovatis,
se. floribus sessilibus. *Willd. sp. pl.* 2. p. 1053.

1. — *Hort. kew. ed.* 2. v. 3. p. 253. — *Plant.*
grass. cum icone. — *Bot. repos.* 201.

HABITAT in Canariis.

G. H. ♀.

FLORET Jun.—Sept.

CULT. 1732.

Glinoides. A. (Hairy-leav'd) foliis subrotundo-cuneiformibus pilosis floribus sessilibus, calycibus hirsutis. *Willd. sp. pl.* 2. p. 1053. — *Hort.*

2. *kew. ed.* 2. v. 3. p. 253.

HABITAT C. B. S.

G. H. ♀.

FLORET Jun.—Aug.

INTROD. 1774.

hispanicum. A. (Spanish) foliis lanceolatis, floribus sessilibus. *Willd. sp. pl.* 2. 1054. — *Hort. kew.*

3. *ed.* 2. v. 3. p. 253. — *Plant. grass. cum icone.*
— *Ficoidea hispanica annua, folio longiore.*
Dill. elth. 143. t. 117. f. 143.

HABITAT in Hispania, Africa.

G. H. ☉.

FLORET Jul. Aug.

CULT. 1728.

lanceolatum. A. (Panicked) foliis lanceolatis floribus paniculatis. *Willd. sp. pl.* 2. p. 1054. — *Hort.*

4. *kew. ed.* 2. v. 3. p. 253. — *Aizoon foliis lanceolatis subtus hirsutis.* *Royen. lugb.* 221. —
Aizoon paniculatum. *Mill. dict. ed.* 8. no. 3.

HABITAT C. B. S.

G. H. ♂.

FLORET Aug.

CULT. 1752.

MONADELPHIA

HEPTANDRIA.

PELARGONIUM. *Hort. kew. ed. 1. v. 2.*
p. 417.—*Geranium* Linn.

Calyx 5-partitus : lacinia suprema desinente in tubulum capillarem nectariferum secus pedunculum decurrentem. *Corolla* 5-petala irregularis. *Filamenta* decem inæqualia, quorum 3, (raro 5) castrata. *Arilli* 5 monospermi aristati ad basin *receptaculi* rostrati, *aristis* spirabilibus barbatis.

* *Caulibus foliisque simplicibus, carnosiss.*

P. (Central-stalk'd) foliis obsolete cordatis peltatis mollissimè pubescentibus, variabiliter glaucis nitentibus, petiolis villosis, caule carnosissimo ramoso arboreo, ramis subsimplicibus, apice excepto defoliatis. *discipes.* 1. *

HABITAT in Africa?

S. h.

FLORET....

INTROD. ante 1808.

OBS. The leaves have a most singular, and, in different lights, changeable glaucous colour, which I recollect no other vegetable instance of.

P. (Cotyledon) umbellis compositis, foliis cordatis peltatis rugosis pubescentibus subtus tomentosis, caule crasso carnosissimo nudo. *Cotyledonis.* *Willd.* 2.

sp. pl. 3. *p.* 674.—*P. (cotyledonis) umbell-
lis compositis, foliis cordatis peltatis rugosis,
caule carnosio. Hort. kew. ed. 1. v. 3. p. 428.
—L'Herit. geran. t. 27. (Not having this
work, I cite it in this genus from Willd. and
Hort. kew.)*

HABITAT in Insula St. Helenæ, et ad Caput
Bonæ Spei. S. h.

FLORET

INTROD. 1765.

*crassi-
caule.*
3.

*P. (Thick-stalk'd) umbellis multifloris, foliis
reniformibus obacuminatis, caule carnosio ra-
moso lævi. Willd. sp. pl. 3. p. 668.—Hort.
kew. ed. 1. v. 2. p. 428.—L'Herit. geran.
t. 26.*

HABITAT in Africæ australis littoribus occiden-
talibus. St. h.

FLORET Jul.

INTROD. 1786.

α. Floribus albis, caule semipedali.

β. Floribus albis quinque maculis pulcherrimis
nigricantibus, caule pedali.

*Cortusæ-
folium.*
4.

*P. (Cortusa-leav'd) umbellis multifloris, foliis
cordatis inciso-lobatis undatis obtuse dentatis,
stipulis subulatis. Willd. sp. pl. 3. p. 672.—
Hort. kew. ed. 1. v. 2. p. 428.—L'Herit.
geran. t. 45.*

α. Foliorum dentibus obtusis, floribus albis, pur-
pureo parum maculatis.

β. Foliorum dentibus acutis.

HABITAT cum priore.

St. h.

FLORET Jul.

INTROD. 1786.

*echina-
um.*
5.

*P. (Prickly-stem'd) umbellis multifloris, foliis
ovato-cordatis sublobatis crenatis, caule cras-*

so carnosus, stipulis persistentibus spinescentibus tecto. *Willd. sp. pl. 3. p. 675.*—*Bot. magaz. t. 309.*—*P. (hamatum) caule carnosus, floribus umbellatis, foliis cordatis trilobis mollibus, stipulis subulatis recurvis spinæformibus. Jacq. hort. schœnbr. 2. p. 7. t. 138.*

HABITAT C. B. S.

S. h.

FLORET Mai.—Aug.

INTROD. 1791.

α. Flore albo, maculis quinque nigricantibus. *Jacq. l. c.*

β. Flore purpureo, maculis quinque saturatioribus.

P. (Kidney-leav'd) foliis reniformibus, crenato-*reniformis* dentatis, tomentosis; floribus heptandris, *me.* subquaternis, purpureis; caule fruticoso, sub- **6.** carnosus. *Bot. repos. cum tab. 108.*

HABITAT C. B. S.

St. h.

FLORET Jul.—Sept.

INTROD. 1791.

α. Foliis reniformibus minoribus.

β. Foliis reniformibus lobatis majoribus.

γ. Foliis subreniformibus lobatis crispo-undatis longioribus, quasi adulteratis a Pelargonio capitato: floribus pulcherrimis pallidioribus.

P. (Ivy-leav'd) umbellis paucifloris, foliis quin-*peltatis* quelobis integerrimis carnosissimis peltatis, ramis *tum.* angulatis. *Willd. sp. pl. 3. p. 669.*—*Hort. kew. ed. 1. v. 2. p. 427.*—*Bot. magaz. t. 20.* **7.** —*Cavan. diss. 4. 232. t. 100. f. 1.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug.

CULT. 1701.

β. Foliis variegatis.

OBS. Folia zonâ nigrâ seu fuscâ notata.

- tetrago-* P. (Square-stalk'd) pedunculis bifloris, ramis
num. tetragonis carnosis, corollis tetrapetalis.—
 8. Willd. sp. pl. 3. p. 669.—Hort. kew. ed. 1.
 v. 2. p. 427.—L'Herit. geran. t. 23.—Bot.
 magaz. t. 136.—Plant. grass. cum icone.—Ge-
 ranium caule tetragono fruticoso, foliis lobatis
 carnosis, pedunculis bifloris, corollis tetrapeta-
 lis. Cavan. diss. 4. p. 231. t. 99. f. 2.—Ge-
 ranium (trigonum) pedunculis bifloris, corollis
 tetrapetalis, caule fruticuloso angulato, foliis
 petiolisque pilosis. Scopol. del. 1. p. 12. t. 5.

HABITAT C. B. S.

St. h.

FLORET Jun.—Aug.

INTROD. 1774.

β. Foliis variegatis.

γ. Ramis junioribus eleganter variegatis.

** *Caulibus, foliisque divisis, carnosis.*

- gibbo-* P. (Gouty) umbellis multifloris, foliis ternatis,
sum. foliolis obtusis inciso-dentatis, intermedio cu-
 9. neato petiolato trifido, caule nodoso nodis tu-
 midis. Willd. sp. pl. 3. p. 684.—Hort. kew.
 ed. 1. v. 2. p. 422.—Geranium (gibbosum)
 caule fruticoso carnosio, geniculis gibbosis, fo-
 liis pinnato-lobatis glaucis, corollis luteo-viri-
 dibus. Cavan. diss. 4. p. 265. t. 109. f. 1.

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug.

CULT. 1722.

- carno-* P. (Fleshy-stem'd) umbellis multifloris, foliis
sum. sinuato-pinnatifidis, laciniis oblongis obtusis
 10. apice inciso-dentatis, petalis linearibus, caule
 crasso-carnoso. Willd. sp. pl. 3. 686.—Hort.
 kew. ed. 1. v. 2. p. 421.—Geranium (carno-
 sum) calycibus monophyllis, caule fruticoso,

articulis carnosogibbosis, foliis pinnatifidis laciniatis, petalis linearibus. Cavan. diss. 4.

p. 266. t. 99. f. 1.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Aug.

CULT. 1724.

P. (Horn-leav'd) umbellis multifloris, foliis re- *cerato-*
motis carnosis teretibus, laciniis canaliculatis *phyllum*.

obsolete trifidis. Willd. sp. pl. 3. p. 688.— 11.

Hort. kew. ed. 1. v. 2. p. 422—L'Herit.

geran. t. 13.—Bot. mag. t. 315.

HABITAT C. B. S.

S. o.

FLORET Mai.

INTROD. 1786.

β. Foliorum laciniis pinnatifidis.

P. (Thick-stem'd) foliis subbipinnatifidis, pin- *dasycau-*
nulis oblongis obtusissimis apice trifidis, caule *le.*

senecto ramoso crasso carnosopedali. 12.

HABITAT C. B. S?

G. H. h.

*

FLORET Aug.

INTROD. circa 1795.

OBS. Caulis fere æquali crassitie, et ad vestigia foliorum parum gibberulus. *Folia* lævia car-
nosa viridia, pinnata, pinnis profunde pinna-
tifidis, superioribus per petiolum communem
decurrentibus, pinnulis truncatis apice sæpius
trilobis trifidisve. A præcedente primo intui-
tu dignoscitur foliis bipinnatifidis; a sequente,
foliolis latioribus cauleque humiliore magisque
ramoso.

OBS. 2. Petioli inferne teretes, superne canali-
culati e decursu pinnularum.

P. (Sapphire-leav'd) umbellis multifloris pani- *Crithmi-*
culatis, foliis bipinnatis carnosis apice dilatatis *folium*.

incisis, petalis obtusis, superioribus basi cris- 13.

pis. *Willd. sp. pl.* 3. p. 688.—*Smith. ic. pict.* 1. p. 13. t. 13.

HABITAT C. B. S. St. h.

FLORET Mai.—Jul.

INTROD. 1786.

alter-
nans.

14.

P. (Parsley-leav'd) umbellis paucifloris; foliis pinnatis, foliolis petiolatis suboppositis cuneiformibus apice inciso-dentatis. *Willd. sp. pl.* 3. p. 688.

HABITAT C. B. S.

G. H. h.

FLORET Mai.—Aug.

INTROD. 1791.

tenuifo-
lium.

15.

P. (Fine-leav'd) umbellis multifloris, foliis bipinnato-supradecompositis hirsutis, foliolis lineari-subulatis, caule carnosio nudo erecto. *Willd. sp. pl.* 3. p. 689.—*Hort. kew. ed.* 1. v. 2. p. 421.

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug.

INTROD. 1768.

Abrota-
nifolium.

16.

P. (Southernwood-leav'd) umbellis paucifloris, foliis digitato-pinnatis, foliolis linearibus trifidis. *Willd. sp. pl.* 3. p. 688.—*Geranium (Abrotanifolium) caule fruticoso, foliis minimis ternatis trifidis laciniis linearibus, floribus umbellatis. Cav. diss.* 4. p. 256. t. 117. f. 1.

HABITAT C. B. S.

G. H. h.

FLORET Jul. Aug.

CULT. ante 1808.

OBS. Neither this (which is new to our gardens) nor the preceding article can be strictly called succulent plants, although they require the same treatment; but from their close affinity

to, and semideciduous habit of most of the foregoing species of this genus, it was judged best to add them.

Nevertheless, all the tuberous tribes are omitted, lest we should have admitted along with them every other tuberous, and even bulbous plant. Somewhere the line must be drawn, between what are, and what are not succulent; and the present should seem the proper place. The tuberous *Gerania* constitute a genus of themselves, the limits of which I have not yet ascertained, owing to the difficulty of obtaining suitable specimens; but have still meditated a monograph concerning them, and indeed the whole order; and the reduction of the factitious mungrels pertaining to it, which our gardens are inundated with, (shamefully excluding the original species) to some fixed points. But the poor encouragements such labours meet have hitherto continually discouraged me.

MONSONIA.

Calyx quinquephyllus. *Corolla* quinquepetala, incisa. *Stamina* 15, connata, (monadelphia) urceolo filamentorum quinquefido. *Stylus* quinquefidus. *Arilli* 5, monospermi, aristati, ad basin receptaculi rostrati. *Persoon. synops.* 2. 238.

M. (Thorny) foliis ellipticis acuminatis integer-*spinosa*.
rimis, petiolis persistentibus spinescentibus, 1.
petalis subdentatis. *Pers. syn.* 2. p. 238.—
Willd. sp. pl. tom. 3. p. 719.—*L'Herit. geran.* t. 42.—*Geranium spinosum. Paterson's*
journ. cum tabula.

HABITAT C. B. S.

S. h.

FLORET....

INTROD. 1790.

OBS. I have seen this remarkable plant alive in the matchless gardens of Kew; but it is not at present to be found there, or elsewhere in Britain.

Classis XIX.

SYNGENESIA

ÆQUALIS.

KLEINIA. (*Linn. in hort. cliff.*)—*Cacalia*
Linn. &c.

Flores discoidei. *Calyx* cylindricus, basi tantum subbracteolatus. *Receptaculum* nudum. *Pappus* pilosus.

OBS. *Caulis* fruticosus, *foliaque* succulenta glauca, intus resinosa.

Nereifolia. 1. K. (Oleander-leav'd) caule fruticoso, foliis lanceolatis planis, floribus corymbosis. *Willd. sp. pl.* 3. 726. (*Cacalia Kleinia*.)—*Kleinia*, foliis lanceolatis planis, caule lævi ventricos. *Linn. hort. cliff.* 395.—*Plant. grass. cum icone*.—*Cacalianthemum folio nerii glauco*. *Dill. elth.* 61. t. 54. f. 2.

HABITAT in Canariis.

G. H. h.

FLORET Sept. Oct.

CULT. 1732.

OBS. The original Linnæan name of *Kleinia* ought to be restored to this plant and its allies. But I am not certain the following ought to associate with it, as some of them have calyxes much more numerously divided.—*Cacalia*, as it at present stands, is an heterogeneous mass.

K. (Rugged) caule fruticoso papillis cylindraceis truncatis petiolaribus obsito, foliis lanceolatis planis. *Willd. sp. pl.* 3. p. 1725.— 2.
(*Cacalia papillaris*) *Kleinia caule carnosio, petiolis truncatis obvallato. Linn. hort. cliff.* 395.—*Cacalianthemum caudice papillari. Dill. elth.* 63. t. 55. f. 63.

HABITAT C. B. S.

G. H. h.

FLORET....

CULT. 1727.

K. (Fig-marygold) caule fruticoso, foliis compressis, carnosio. *Willd. sp. pl.* 3. p. 1727.— 3.
(*Cacalia Ficoides*).—*Kleinia foliis carnosio lanceolatis compressis, caule tereti. Linn. hort. cliff.* 395.—*Senecio africana arborescens: ficoidis folio et facie. Comm. rar.* 40. t. 40.—*Bradl. succ.* 5. p. 11. t. 49.

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Nov.

CULT. 1727.

K. (Creeping-rooted) caule fruticoso, foliis depressis, carnosio. *Willd. sp. pl.* 3. 1727.— 4.
(*Cacalia repens*) *Thunb. prod.* 141.—*Plant. grass. cum icone.*

HABITAT C. B. S.

G. H. h.

FLORET Jun.—Oct.

INTROD. 1759.

Planta tota structura simillima *C. Ficoides*, etiam rore glauco obducta, sed *Folia* supra depresso-concava, nec lateribus compressa. *Radix* repens. *Willd. l. c.*

OBS. *Plantæ* senectæ solum florent. *Pedunculi* prælongi subbifidi, rarius subcorymbosi parum bracteolati, demum laterales axillaresve. *Calyx* campanulatus flosculis farctus irregulariter rumpens.

tomento- K. (Woolly) foliis alternis carnosis teretibus
sa. utrinque attenuatis, caulibusque prætomen-

5. tosis.—*Cacalia (tomentosa)*.—*Nobis in misc.*
* nat. p. 189.

HABITAT C. B. S.

G. H. h.

FLORET....

INTROD. 1795.

OBS. This extraordinary plant has not yet produced any flowers with me. It is completely enveloped in a short dense skin-like cover of cottony wool, which is even capable of being stripped off the leaves like a skin, leaving the leaves themselves green after being divested of it. This cotton, if lighted in the flame of a candle, &c. slowly consumes in the manner of touch-paper; owing to the resinous quality this genus abounds in. *C. tomentosa* is capable of living very long without water, as are also other woolly succulents, &c.—Vide remarks on this head in *Miscellanea naturalia*, p. 203.

Anteu- K. (Oval-leav'd) caule fruticoso, foliis ovato-
chorbi- oblongis planis, petiolis basi linea triplici de-
um. ductis. *Willd. sp. pl. 3. p. 1725. (Cacalia*

6.

Anteuphorbia)—*Ante Euphorbium.* Dill.

elth. 63. t. 55. f. 2. 3.

HABITAT C. B. S.

G. H. h.

FLORET Feb. Mar. rarissimè.

CULT. 1596.

OBS. Flores terminales sessiles sæpius solitarii
miseri, calycibus multifidis.

K. (Fleshy) caule fruticoso; foliis teretiusculis *carnosa*.

carnosis incurvis, pedunculis terminalibus u-

nifloris nudis. *Hort. kew. ed. 1. v. 2. p. 156.*

—(*Cacalia carnosa*) *Willd. sp. pl. 3. p. 1727.*

HABITAT C. B. S.

G. H. h.

FLORET....

INTROD.

An sequentis generis? Flores non vidi.

K? (Jointed) caule fruticoso, foliis carnosis *articula-*

planis ternatis, foliolis trilobis. *Willd. sp. ta.*

pl. 3. p. 1727. (Cacalia articulata.)—Caca- 8.

lia (laciniata) caule fruticoso, carnoso, arti-

culato; foliis ternato-pinnatifidis, obsolete.

Plant. grass. 18. cum iconè.—Jacq. hort. vind.

1. 168.—Cacalia (runcinata) caule fruticoso,

foliis petiolatis planis, hastato-runcinatis car-

nosus glaucis. Lamarck. encycl. 1. p. 523.

HABITAT C. B. S.

G. H. h.

FLORET Sept.—Nov. infrequens.

INTROD. 1775.

OTHONNA.

Calyx 1-phyllus multifidus, subcylindricus. *Re-*

cept. nudum. Pappus subnullus. Persoon.

synops. 2. 496.

O. (Fig-marygold-leav'd) foliis filiformibus *car-*

temissis, caule fruticoso. Linn. mant. 118.—ma.

Hort. kew. 3. 277.—Persoon. synops. ex 1.

Syngenesia Æqualis. Othonna.

cluso *synon.* Jacq. *schuen.*—*Cacalia cylindrica.*
Plant. grass. cum icone.

HABITAT C. B. S.

G. H. 4.

FLORET Apr. Mai. rariss.

INTROD. 1774.

OBS. Perhaps it does not belong to this genus, receding in its leaves and subverticillated branches, and in having but 6 or 7 divisions in the calyx, revolute petals, (except to a hot sun) and long, nearly naked pappus—cuneate-oblong, concave truncate germina, with (in the glass) minutely crenulate, and distinct coronary margins. The cymes of its rare yellow flowers resemble those of a *Cineraria*.

Classis XXI.

MONOECIA

POLYANDRIA.

BEGONIA. *Gen. plant.*

MAS. *Calyx* 0. *Corolla* 4-petala: *petalis* duobus oppositis majoribus. *Stamina* numerosa. FÆM. ut in mare. *Styli* 3, bifidi. *Capsula* infera, triangularis, alata, trilocularis, polysperma. (*Folia* sæpius obliqua.) *Pers. synopsis.* 2. p. 564.

OBS. Ordo naturalis Hydrocharides.

* *Foliis cordatis.*

- B. (Shining) fruticosa erecta, foliis glaberrimis *nitida*.
inæqualiter cordatis obsolete dentatis, capsula 1.
ala maxima subrotunda. *Dryand. in linn.*
soc. tr. v. 1. p. 159.—Pers. synops. v. 2.
p. 564.—Hort. kew. ed. 1. v. 3. p. 352.—
Begonia obliqua. L'Herit. stirp. nov. p. 95.
t. 46.—Begonia minor. Jacq. collect. v. 1.
p. 126.

HABITAT in Jamaica.

S. h.

FLORET Mai.—Dec.

INTROD. 1777.

- B. (Forked) fruticosa erecta, foliis inæqualiter *dichoto-*
cordatis subangulatis glabris subtus ad venas *ma.*
subhirsutis, panicula dichotoma, capsula ala 2.
maxima acutangula reliquis parallelis acutan-
gulis. *Pers. synops. v. 2. p. 564.—Donn.*
hort. cantab. ed. 6. p. 246.

HABITAT in sylvis humidis ad Caraccas. S. h.

FLORET Jul. Aug.

INTROD. ante 1810.

- B. (Broad-leav'd) foliis inæqualiter cordatis cre- *macro-*
nato-dentatis, inferioribus angulatis, capsula *phylla.*
alis obtusangulis una maxima. *Dryand. in* 3.
linn. soc. tr. v. 1. p. 164.—Persoon. synops.
v. 2. p. 564.—B. grandifolia. Jacq. collectan.
v. 1. p. 128. (excluso synonymo Brownei.)

HABITAT in montibus Jamaicæ.

S. h.

FLORET Mai.—Dec.

INTROD. 1794.

- B. (Tuberous) repens, foliis inæqualiter cor- *tuberosa.*
-datis angulatis dentatis, capsulæ alis parallelis. 4.
Dryand. in linn. soc. tr. v. 1. p. 168.—Pers.

synops. 3. p. 564.—*Donn. hort. cantab. ed.* 6. p. 246.—*Rumph. v.* 5. t. 169. f. 2.

HABITAT in saxosis insulæ Amboynæ—Celebes.

FLORET Jul.—Sept. S. h.

INTROD. ante 1810.

- Evansi-ana.* B. (Two-colour'd) foliis inæqualibus cordatis, supra hispidulis, nitidis margine inæqualibus, acutis serrulatis; petalis duobus late ovatis, duobus obovatis quadruplo majoribus: caulibus flexuoso-erectis, nodosis: axillis bulbi-feris. *Bot. repos. tab.* 627.

HABITAT in China.

G. H. 4. s. h.

FLORET Jun.—Sept.

INTROD. 1804.

OBS. Species pulcherrima, foliis subtus saturatè rubris.

**** Foliis semicordatis.**

- acuminata.* B. (Sharp-leav'd) foliis hispidis semicordatis acuminatis inæqualiter dentatis, capsulis ala maxima obtusangula, reliquis acutangulis. *Dryand. in linn. soc. tr. v.* 1. p. 166. t. 14. f. 5. 6.—*Persoon. synops. v.* 2. p. 564.

HABITAT in Jamaicæ montibus cæruleis. S. h.

FLORET Mai.—Dec.

INTROD. 1791.

- humilis.* B. (Humble) erecta, foliis hispidis semicordatis duplicato-serratis, capsulis alis rotundatis parum inæqualibus. *Dryand. in linn. soc. tr. v.* 1. p. 166. t. 15.—*Persoon. synops. v.* 2. p. 564.—*Donn. hort. cantab. ed.* 6. p. 246.

HABITAT in insula Trinitatis.

S. ♂.

FLORET Jul.—Sept.

INTROD. 1788.

B. (Hairy) caulescens, foliis hispidis semicor- *hirsuta*.
 datis duplicato-serratis, capsulæ ala maxima 8.
 obtusangula, reliquis parallelis minimis. *Dry-*
and. in linn. soc. tr. v. 1. p. 167.—Persoon.
synops. tom. 2. p. 564.—Begonia hirsuta.
Aubl. guian. 913. t. 348.

HABITAT in Guianæ rupibus.

FLORET

INTROD. ante 1810.

IT may be wondered at by some why Willde-
 now's last volume is not cited in these latter
 pages; and by others why the Linnæan ar-
 rangement is preferred to NATURAL ORDERS.
 —The former are answered by saying, I have
 not that volume, nor thought it material to
 borrow it:—the latter, by observing that the
 method of Linnæus is most convenient for
 small lists of plants; but for all general and
 extensive distributions, the *natural arrange-*
ment is as preferable to it, as the sun is to the
 moon.

APPENDIX.

I TAKE the present opportunity of making a few supplementary additions to the fourth and fifth Dissertations of *Miscellanea naturalia*; the preceding pages having already acted as such to the former three. The Saxifragæ there described appear to form many genera.—*S. sarmentosa*, *S. crassifolia* and *cordifolia*, I had separated; but as the former is published by Duval under the name of *Ligularia*; and the latter, as my friend R. A. Salisbury informs me, also as a genus, in some other work, it is unnecessary to dwell further on them here; but the following have not until now been considered as generically distinct.

MICRANTHES.

Calyx 5-partitus laciniis arcuissimè refractis. *Corolla* 5-petala, petalis remotis loratis virescentibus absque unguiculis. *Filamenta* uniformia depresso-plana, petalis breviora. *Germen* superum. *Capsula* birostris unilocularis polysperma. *Herbæ* perennes, foliis oblongis dentatis ciliatis. *Scapi* elati fistulosi aphylli subviscoso-pubescentes. *Flores* paniculati subcapitulato-conferti præexigui immunes.—*Saxifraga* Linn. &c.

M. (Semipubescent) foliis lanceolatis crassius- *semipu-*
culis minutissime repando-crenulatis, supra *bescens.*
nudis aveniis, subtus margineque pubescen- 1.
tibus. *

HABITAT . . .

H. 4.

FLORET Mai. Jun.

OBS. Differs generically as above; and specifically from *Saxifraga pensylvanica* of Linnæus and Dillenius, in the leaves being very obsoletely crenulated, (not sharply dentated,) darker green, nearly veinless and downy beneath, (not light green strongly veined and naked,) and in having shorter scapes, larger, and less crowded flowers.—*Sax. Hieracifolia* also belongs to this genus.

ROBERTSONIA.

Calyx 5-partitus, laciniis arctissimè refractis.
Corolla 5-petala, petalis unguiculatis. *Filamenta* teretia basi gracillima, petalorum longitudine superne valde incrassata. *Germen* superum. *Capsula* 2-rostris 1-locularis, polysperma. *Herbæ* perennes, foliis rotundatis, rarius cuneatis oblongisve, semper dentatis seu crenatis. *Scapi* solidi aphylli effuso-paniculati. *Flores* parvi albi petalis luteo rubrove perlepidè punctatis.—*Saxifraga* Linn. &c.

This genus is named in honour of the late Benjamin Robertson, who left his whole fortune by will (sadly for the science of Botany, annulled by Lord Chancellor Eldon) to trustees, to form a Botanic Garden of vast extent:—"Exemplum rarum et inauditum"—"Tantus amor florum." (See *Misc. nat.* 190.)—The plants called "London's Pride, None-so-

pretty, &c." belong to this genus, and their names are perfectly typical of this gentleman's spirit in the cause of Botany.—The following are presumed to be new species.

- Micranthidifolia*. R. (Oblong-leav'd) foliis alatim petiolatis lanceolato-oblongis obtusis altè dentato-serratis hirtis, petalis macula flava, filamentis pedunculatis, stylis subulatis acutis.
 1. * HABITAT in Carolina.—Introdixit, communicavit Dom. Fraser anno 1810.
 FLORET Mai. copiosè. H. 4.
- serrata*. R. (Sawed) hirtula, foliis obovato-cuneatis rigidis argute serratis, paginis glabris nudis.
 2. * OBS. S. punctatæ simillima, at foliis angustioribus, serraturis profundioribus acutioribus.
 HABITAT in Hibernia. H. 4.
 FLORET Mai.
- polita*. R. (Polish'd) hirta, foliis reniformibus rotundis argute dentatis, paginis nudis lævigatis.
 3. * OBS. S. punctatæ affinis, at major, foliis omnino diversis.
 β. Minor, ex montibus Scotiæ.
 FLORET Mai. H. 4.
- sphæroidæa*. R. (Sphæroidal) hirta, foliis reniformi-sphæroidæis obtuse crenatis, paginis utrinque nudis lævibus.
 4. * OBS. Affinis S. hirsutæ Linn. at triplo minor, et differt foliis nudis crenatis; nec hirsutis dentatis.
 HABITAT.... H. 4.
 FLORET Mai.
 INTROD. circa 1800.
- crenata*. R. (Crenated) hirtula, foliis reniformibus rotundis, obtuse crenatis.
 5. *

OBS. Major quam *S. Geo*, minus hirsuta, foliis crenatis nec dentatis, floribus sanguineo flavoque perlepidè punctatis.

HABITAT

S. 4.

FLORET Mai.

INTROD. ante 1796.

R. (Tooth'd) hirtula, foliis reniformibus rotundis *dentata*.
crenato-dentatis, petalis sanguineo flavoque punctatis. 6.
*

OBS. *S. Geo* nimis affinis, at minus hirta, foliis minus argute dentatis, numerosioribus, et forsan minoribus, floribus sanguineo flavoque punctatis. Plantæ etiam longiores, minus erectæ.

HABITAT in Scotiæ montibus.

H. 4.

FLORET Mai.

MISCOPETALUM.

Calyx 5-partitus erectus. *Corolla* 5-petala, petalis oblongo-lanceolatis pedunculatis rubropunctatis. *Filamenta* filiformia non incrassata. *Germen* superum. Cætera *Saxifragæ*. *Folia* rotundo-reniformia argute dentata hyeme marcescentia. *Scapus* solidus foliosus paniculatus.

M. (Round-leav'd) *Saxifraga rotundifolia*. *rotundifolium*.
Linn. &c.

OBS. It appears to differ from *Saxifraga* in its petiolated (not sessile) petals and superior germen;—from *Micranthes* in its petals, and erect (not refracted) calyx; and from *Robertsonia* again in its calyx and petals, and filiform (not obattenuated) filaments.—There are yet more genera to be taken from *Saxifraga*. 1.

SAXIFRAGA.

- lanceolata*. S. (Spear-leav'd) foliis glabris ciliatis, rosarum 7-fido-palmatis, stolonum brevissimorum e-rectorum 5—3-fidis, caulinis lanceolatis; petalis rotundo-obovatis.
1.
*

OBS. I had this plant from Mr. J. Donn as a Scotch species in May 1810. It is allied to *adscendens*. The petals are large and much rounded.

- quinquedens*. S. (Five-tooth'd) nuda, foliis stolonum virgatorum 5—3-fidis, remotis (longitudine internodiorum), laciniis subulatis aristatis æquantibus petiolos ciliatos.
2.
*

OBS. Allied to *S. adjugifolia*, but thrice as small, with large orbicular petals. Probably a foreign species, as I found it in a small collection in bloom May 1810, and saw no British one with it.

- tridens*. S. (Trident) foliis ciliatis, rosarum 5-fidis, stolonum brevium e-rectorum trifidis confertis, laciniis linearibus acutis, petiolis internodiis brevioribus; petalis elliptico-oblongis distinctis.
3.
*

OBS. A Scotch plant, communicated in bloom May 1811, by Messrs. Malcolm, Kensington; but unless my number sticks have deceived me, has also come up in my own garden from mixed seeds of other *Saxifragæ*. It is closely allied to *S. trifida*, but is smaller, with narrower and more hairy leaves, and narrower petals.

- septifida*. S. (Septifid) foliis stolonum brevium prostratorum 7—3-fidis confertis ciliatis, laciniis linearibus subcuspidatis, petiolis longitudine inter-
4.
*

nodiorum; petalis cuneato-ovalibus vix imbricatis.

Obs. A Welch plant, communicated with the next but one, in bloom in May 1810, by Mr. J. Dixon, of Clapham, an assiduous and successful cultivator of Saxifragæ. Allied to *S. quinquedens*, but far larger, and with shorter stolones.

S. (Broad-cleft) foliis aristatis trifidis quinque-*latifida.*
fidisve: basi elongatis; superioribus lineari- 5.
bus indivisis, pedunculis longissimis nudis.
—(*S. elongella*) Smith in *linn. soc. tr. v. 10.*
p. 340; et Eng. bot. t. 2227, excluso synonymo
Donn. (ex Nobis in misc. nat.): quod toto
cælo discrepat.

Obs. A Scotch plant, communicated by Messrs. Malcolms. The divisions of its leaves are unusually broad.

S. (Hoary) foliis stolonum cuneatis semper tri-*canes-*
cuspidatis hirtis, caulinorum supremorum sæ-*cens.*
pius integris; petalis ellipticis non imbricatis. 6.

Obs. Perhaps a var. of *S. palmata*. Sm. but longer shooted, slenderer, less villose, greener, and with narrower, and not imbricating petals. The root leaves are often palmate, but less so than in *palmata*. I believe it is a foreign plant. *

S. (Hairy) foliis stolonum trifidis, petiolis lon-*hirsuta.*
gitudine internodiorum, petalis ovalibus non 7.
imbricatis. *

Obs. I suppose this to be a Scotch plant, and perhaps a var. only of *hybrida*; but its shoots are longer, slenderer, and far more hairy, and its narrower petals do not imbricate, like

those of hybrida. The leaves are also much more remote.

OBS. *Saxifraga hirta* of Eng. bot. t. 2291, is not my hirta, nor the hirta of Donn's hort. cantab. ed. 5; all the new British species of that edition being taken from *Miscel. nat.*—*S. moschata* of Eng. bot. 2214, is no other than *S. pygmæa*, *Misc. nat.* which appears to have but few characters in common with *S. moschata*.

OXALIS. *Miscel. nat.* p. 185.

prostra- OBS. *Oxalis corniculata* of Eng. bot. is this
ta. plant, but it is quite a distinct species from
1. *O. corniculata* of *Fl. dan.* 873, &c. cited by
Withering as his *O. corniculata*; which last
I received twenty-four years ago from a good
Botanist as an English species, and which has
still longer been cultivated in the British de-
partment of the Brompton (now Sloane-street)
Botanic Garden, from originally English
roots. This last plant scarcely differs specifi-
cally from *O. stricta*, but is smaller, has more
prostrate stolone-like branches, and the disks
of its leaves naked, not hairy as in *stricta*, and
arises from self-sown seeds most abundantly,
without varying.

AJAX.

Salisb. in hort. soc. tr. p. 243. *Narcissus*
Linn. &c.

Telamon. A. (The great) scapo valde striato compresso-
1. que ore nectarii 6-fido expanso alte irregulari-
* ter crenato.

HABITAT....

H. 4.

Obs. *Folia* latissima glaucissima, striatissima utrinque. *Scapus* sesquipedalis robustus anceps valde compressus, striis validioribus magisque elevatis quam in *N. serrato*. *Corolla* forte maxima, certe longissima omnium, at angusta ratione magnitudinis, tubo paulo angulato luteo : laciniis exactè semierectis tubo sesquilongioribus vel plus, tortis subellipticis pallide luteis, interioribus parum angustioribus : nectario perluteo longitudine laciniarum.

Obs. The common double Daffodil is a var. of this large species ; and not of *Narcissus* major, as is usually supposed.

A. (Noble) scapo teretim ancipiti alte striato, *nobilis*.
 laciniis corollæ patentissimis tortis ellipticis 2.
 luteis, nectario perluteo ore patulo profundissime serrato, brevioribus. *

HABITAT....

H. 4.

Obs. Communicavit amicus Dom. Evans. Præcedenti minor, petalis magis expansis.

A. (Spurious) scapo lævi compresso ore nectarii prælutei altè 6-fido patulo, laciniis corollæ semierectis lanceolatis luteis. *spurius*.
 3.
 *

HABITAT in Anglia apud Millhill, prope Londinum.

H. 4.

FLORET f. Ap.

Obs. *Folia* utrinque striata glauca. *Scapus* subpedalis anceps lævis magis compressus quam in præcedentibus. *Tubus* corollæ præluteus obsolete compressus laciniis multo brevior : *laciniæ* patulæ tortæ, exteriores lato-lanceolatæ, interiores paulo angustiores. *Nectarium* laciniis aliquantulum longius, ore pa-

tulo profunde 6-fido inæqualiter dentato subplicato; intus minutissime transversaliter rugosiusculum. *Antheræ* apice punctulo nigro.

Obs. A few plants of this were first pointed out to me by my friend R. A. Salisbury, Esq. growing wild amongst a variety of *N. serratus* (Misc. nat.) at Mill-Hill. They keep distinct in the Garden; and he joins me in thinking they may have originated from bees carrying the pollen of some garden species to the stigmata of the wild kind. Like *N. serratus*, they flower near a month later than the narrower-leaved and otherwise differing Kentish *N. pseudo-narcissus*.

QUELTIA. *Salisb. in hort. soc. tr. p. 351.*

Galanthifolia.

1.

*

Q. (Snowdrop-leav'd) laciniis corollæ lacteæ nutantis subtortis substellatis ovato-lanceolatis lateribus infernè deflexis, nectario poculiformi plicatissimo plus duplo longioribus.—*Narcissus totus pallidus oblongo calyce serotinus minor.* *Park. parad. 73.*

HABITAT

H. 4.

FLORET i. Mai.

Obs. *Folia* subeffusa angusta subtorta virescentia extus carinata, intus profundè concavocanaliculata, *Galanthum* nivalem simulantia. *Caulis* anceps subangularis tortuosus 7—9-uncialis. *Spatha* uniflora (ut in cæteris). *Corolla* primo floris lactis colore, demum alba, nectario ore erosulo. *Stamina* viridia æqualia tubo duplo breviora. *Antheræ* magnæ peruteæ. *Stylus* viridis longitudine tubi.

HERMIONE. *Salisb. in hort. soc. trans.* 359.

H. (Cowslip-cup'd) subquadriflora, scapo ob- *Primuli-*
tusissime compresso lævissimo, laciniis corol- *na.*
læ perluteis late ellipticis, nectario subauran- 1.
tio patulo alte sexlobato 3-4-plo longioribus, *
staminibus tribus exterioribus altitudine styli.
—*Narcissus bifrons* β. *Bot. mag.* 1229.

OBS. In May 1809 I named this species, from its Nectary *exactly* resembling the flower of a Cowslip. It is well figured in *Bot. mag.* as a var. only of *N. bifrons*, and confounded with my *compressus*, which Mr. Edwards painted from my Garden in 1808 for the Magazine. The Hermione *bifrons* of Salisbury mistaken for my *N. tereticaulis* in *Hort. soc. trans.* (a living specimen of which I saw with him, without leaves) is also different from the above, if I may judge from what I consider the same, just planted in my garden: having broader leaves and less regularly lobed cups than *H. primulina*: and if so, here are four or five species confused under one or two; and two eminent describers of bulbous plants misunderstanding *N. compressus* and *tereticaulis*.

As to any of these plants changing one into the other, according to *Bot. magaz.* no grower of plants can one moment believe.

H. (Waxen-cup'd) pauciflora, nectario præam- *cerina.*
plo subincrassato truncato cerino, petalis albis 2.
duplo brevioribus. *

HABITAT....

H. 4.

FLORET f. Ap. in tepidario, in horto Dom.
Vere, f. Ap. 1807, sed non sub dio post-
quam.

Obs. *Folia* 4, lorata obtusa glaucescentia latissima absque carina. *Caulis* teretiusculus glaucescens foliis vix brevior. *Pedunculi* 4 inæquales triquetri striatuli. *Germen* 3-quetrum. *Corolla* tubo itidem plus minus 3-quetro s. teretiusculo, laciniis albis ovatis tubo fere dimidio brevioribus, basin versus valde imbricatis patentibus s. aliquantillum reflexis. *Nectarium* præamplum ratione floris, crateriforme subcarnosum luteo-cerinum semilongitudine laciniarum, ore integerrimo truncato. *Stamina* 3, cum *stylo* extra tubum porrecta, 3 alia breviora inclusa.

fistulosa. H. (Hollow-stalk'd) corollæ laciniis albis nectario recto inflato subintegro luteo fere duplo longioribus.

3.
*

HABITAT....

H. 4.

FLORET m. Ap.

Obs. *Folia* 10-linearia latitudine, lævia subcarinata. *Scapus* fistulosus teretiusculus alte striatus, 9-florus et ultra. *Pedunculi* inæquales 3-quetri s. semiteretes altissimè striati. *Germen* obsoletè 3-angulare oblongum lucidum. *Corollæ* tubus semiteretiusculus, laciniæ subreflexo-incurvæ ovatæ æquales valde imbricatæ et plus minus mucronatæ tubo breviores. *Filamenta* gracilia, 3 tubum superantia, 3 æquantia. *Antheræ* perluteæ. *Stigma* trifidum laciniis patulis.

grandi-flora.

4.
*

H. (Great-flower'd) sub-8-flora, petalis amplissimis albis, nectario patulo parum plicato crenulato luteo.—*Bazelman major*, *Hortulanorum*.

Obs. This, our largest flowered species, is the H. crenularis of Salish. in Hort. soc. trans. under the idea of its being my N. crenulatus, which

is the Bazelman *minor* of the Gardens, a distinct, but kindred plant.

NARCISSUS.

N. (Drooping-leav'd) foliis semuncialibus glaucis *recurvus*.
 superne debiliter recurvo-dependentibus; petalis imbricatis lateribus inflexis; nectario patellari perplicato, margine crenulato coccineo; stigmatibus longitudine staminum interiorum. *

HABITAT H. 2.

Obs. I find no account of this plant in authors, not even in my acute friend Salisbury's arrangement of this tribe under new genera (all which he has long known were consonant to my ideas) in the sixth part of *Hort. soc. trans.* From his *radiiflorus* (exclusive of its flowers) this species differs in having leaves twice as broad, more glaucous, and with less conspicuous keels; and may be distinguished even at a distance by their points hanging down. And from *N. patellaris* (Salisb. prod.) I would distinguish it by giving patellaris the following specific character. N. foliis 4-linearibus glaucis subincurvantibus, petalis imbricatis lateribus deflexis; nectario patellari luteo, minutissime plicatulo, margine subscarioso circulo albo gracili externe coccineo crenulato; stigmatibus longitudine staminum interiorum.

Obs. Patellaris flowers rather the earliest, and is a smaller plant. The true N. *poeticus* (Salisb. hort. trans. l. c.) differs abundantly from both not only in its foliage, corolla, and earlier flowering, but in the far more flattened and differing Nectary. They are all most beautiful and fragrant plants; quite hardy, and of easy culture. The common double

Narcissus called "Primrose Peerless" is a variety of *patellaris*, and is the identical poeticus of Dr. Smith, in English Botany; as roots from the place his came from soon produced flowers more or less double; clearly showing their garden origin. His *N. biflorus* (which is absolutely a mule, for no one can find even rudiments of its seeds) is also an outcast of gardens.

CORBULARIA. *Salisb. in hort. soc. tr.* 351.

albicans. C. (Whiteish) *sulphurascens*, s. *albicans*: nectario turgido integerrimo longitudine laciniarum: stylo excluso: foliis obtusiusculis.—*Pseudo-Narcissus Juncifolius albus*. *Park. parad.* 106.

1.
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OBS. This is the fifth species of this genus I am acquainted with; it differs from *C. Bulbocodium*, as above, and in having shorter corolline laciniae. I imported it from Holland in 1789 by the name of "*Trompet Marin*," (along with the next article) and lost it the following year. This description is from the dry specimen mentioned in *Hort. soc. trans.* 351.

ASPHODELUS. *Gen. pl.* 570.

asiaticus. A. (Asiatic) foliis glaucis sesquipetalibus latitudine subunciali, corollae laciniis ovali-oblongis basi imbricatis, bracteis pedunculo curto brevioribus, scapis simplicibus s. ramosis.—*Asphodelus asiaticus hortorum Batavorum*.

1.

OBS. Differs from *A. ramosus* in its leaves dying more completely down in winter; appearing later in spring, being glaucous (not green), and three times shorter and more upright, and far broader; in its scape being far shorter and often simple; in its far shorter peduncles, and

shorter but far broader segments of the corolla. The stamina and style are also far shorter, and the antheræ yellow, not rufescent. From *A. luteus* it differs *generically*, not having an *irregular* corolla and *incurving* filaments, &c.

Obs. Since printing the above, Mr. Cuff, of Teddington, has obligingly sent me *Stapelia pedunculata* (of page 23) in bloom. It forms a new genus, as follows.

CARUNCULARIA.

Ligulæ 5, breves patulæ emarginatæ. *Stamina* 2-partita recurvantia compressa deorsum attenuata, apicibus globosis granulatim carunculatis, granulis diversiformibus.

C. (Peduncled) pedunculis longissimis, laciniis *peduncu-*
corollinis margine revolutis, angulis fimbria-*lata.*
tis.—Supra p. 23. 1.

Obs. *Pedunculi* glomerati teretes 3-4-unciales virides erecti, at ex inferiore parte ramuli. *Calyx* 5-phyllus acutè stellaris. *Corolla* 5-petaloidea laciniis carnosoloreis revolutis subasperis, sulcis 3 longitudinalibus obsolete, basi supra marginem fasciculo pilorum tremulorum spatulorum rufo-vinaceorum, extus viridibus punctis rarioribus rubris basin versus, odore ovorum putridorum. In ipso fundo corollæ stella 5-gona rufo-aterrima e granulis lente subspatulæformibus genitalia ambientibus. *Ligulæ* atro-rufæ breves cavo-canaliculatæ emarginatæ patentes. *Stamina* inæqualiter 2-partita (*Stapeliarum*) atro-rufa laciniis crassis compressis superne recurvantibus capitatum granulato-carunculatis subglobosis. Cætera non examinavi.

Additional Note on Mesembryanthemum albidum, &c.

This fine species expands its large flowers, three or four inches wide, late in the afternoon, and does not close them till eight or nine o'clock the next morning. They therefore admit of being used ornamentally with lacerum, &c.

patulum. M. (Spreading) decumbens, foliis 6—12-linearibus semi-erectis glaucescentibus punctulis pellucidis asperiusculis.—M. compresso proximum, at minus rigidum vel erectum, foliis brevioribus crassioribus glaucioribus magis expansis.

1.

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FLORES non vidi.—Nov. sp.

Communicated by Mr. J. Ross, Nurseryman, Stoke Newington, who raised it from Cape seeds in 1811.

curtum. M. (Short-sheath'd) erectum, foliis subconfer-tis patentibus viridibus vaginis curtis inconspicuisve, multoties longioribus.—M. vaginato proximum, foliis crassioribus non subulatis, vaginis brevissimis, s. folio tectis.

2.

*

FLORES non vidi.—Nov. sp.

Communicated by my friend Mr. C. Law, of Stoke Newington, an assiduous collector of *Mesembryanthema*.

P. S. In this place my grateful thanks are given to all my friends, but more especially to Arthur Tyton, Esq. of Wimbledon Common, an extensive cultivator of plants, and R. A. Salisbury, Esq. whose botanic knowledge is beyond my praise.—But for their exertions in procuring subscriptions, this little work would never have appeared.



